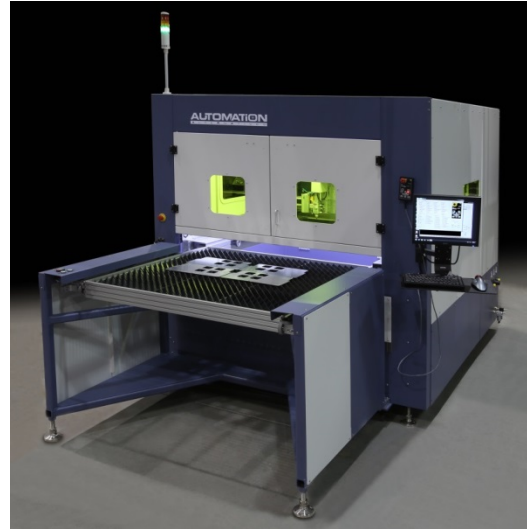


RubyLaser



RubyLaser family of laser cutting and welding systems is designed for accurate and fast processing of a vast variety of metallic materials on a heavy-duty compact platform. It uses the latest fiber laser technologies for high quality results at a very affordable cost of ownership. Compact footprint, flexibility, accuracy and ease of use make RubyLaser system a smart choice for many industries from small to large scale operations.

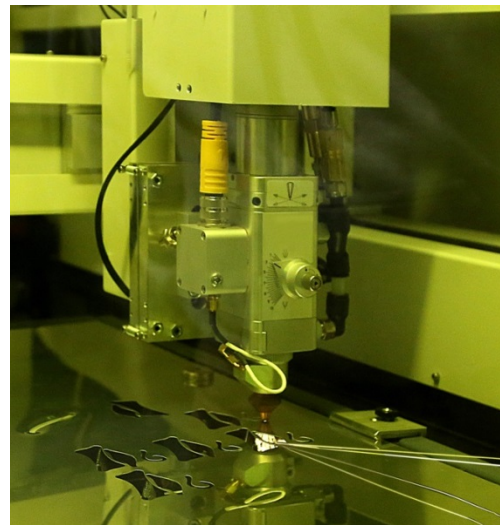


RubyLaser is built on a heavy-duty welded steel structure to guaranty durability, stability and precision needed for laser systems working in harsh industrial environments. In addition, sealed axis-drive mechanisms protect precision motion axes from spatters caused by the cutting or welding processes, drastically reducing maintenance and repairs.

RubyLaser uses maintenance-free high efficiency fiber lasers with very low running cost, just a fraction of running cost of CO2 or YAG lasers for comparable processes. In addition, fiber lasers have much longer life times compared to other types of laser technologies.

FLC Series:

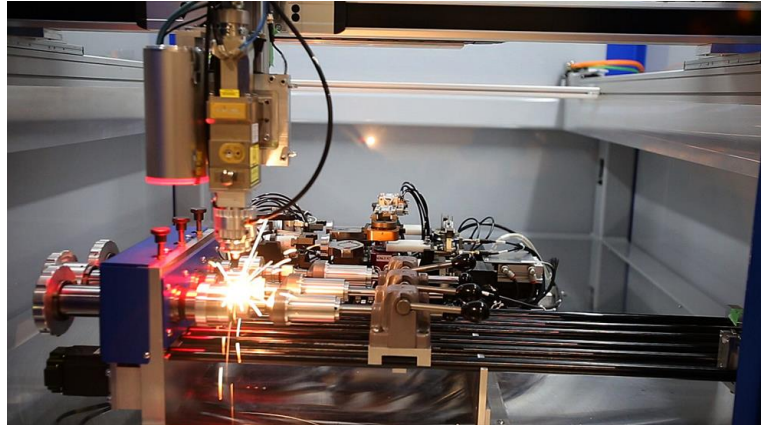
The FLC series of **RubyLaser** is specifically designed for cutting applications. Its high quality beam and advanced beam delivery system guarantees fine edge quality for a wide variety of materials. An automatic non-contact nozzle gap controller keeps the workpiece in accurate laser focus all the times regardless of any warpage. This feature simplifies the use of the machine and produces a perfect edge quality.



The lasers of FLC series come in different working areas and can be equipped with an automatic pull-out table for larger sizes in order to facilitate loading and unloading of the machine.

FLW Series:

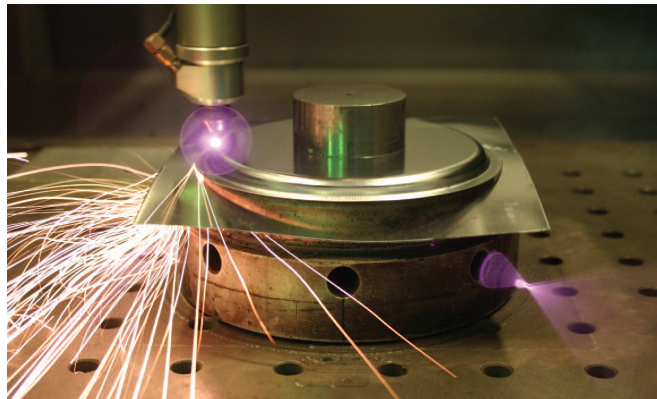
FLW series of **RubyLaser** is specifically designed for cutting applications. Each machine will be equipped with proper type of the laser as well as optics that provide the best welding results. The system can be configured for applications involving welding of a variety of materials, similar or of dissimilar materials or alloys and a combination of thin and thick materials with different weld finishes, patterns or penetration.



AAA can help customers to develop optimum welding parameters in order to accurately define system specifications. The FLW series can also be equipped with optional single or multiple rotary axes as well as specialty fixtures including automated tasks that customers may need for their welding processes.

Standard Vision System:

Each RubyLaser comes with an integral vision system that is specifically configured for the cutting or welding application that the machine is made for. RubyLaser vision automatically finds programmed fiducials (targets) on the work piece and automatically adjusts itself to cut or weld the work piece with unparalleled precision.



Programmable Z-axis:

This standard feature provides automatic, fast and accurate adaptation of the optics to varying height of the material being processed and guarantees sharp and clean cut or weld quality with no need for manual focus adjustment.

Software:

RubyLaser is equipped with powerful, user-friendly FlexLaser software. In addition to its unique integral vision module, it has many other capabilities and functionalities that make set up and operation of the machine extremely simple. Alternatively, AAA G-Code editor is also available for those customers who prefer working with G-code instead.

Warranty and Support:

RubyLaser carries a one-year Limited Warranty. Extended warranty is also available. Technical support is available on-site, via telephone or e-mail. Automation Alternatives carry a complete inventory of all parts for its equipment which could be shipped next day.

Specification Highlights:

Working Area	Standard: 24"x24", 30"x30", 48"x48"	Custom sizes available
Enclosure and safety	Fully enclosed, Class 1	Dual redundancy for ultimate safety
Power and Cooling	Low to multi-kilowatt	Air or water-cooled based on power
Laser Type	No-maintenance fiber laser	Different wavelengths
Laser Power Control	Proprietary modulation techniques	Suits challenging applications
Axis and drive technology	High performance servo with high precision ball-screw system and linear bearings.	Also available with high-speed linear motor option.
Number of axes	Three, including programmable Z-axis	Available with optional rotary axis
Repeatability	+/- 0.001"	
Positional accuracy	+/- 0.002"	
Measuring units	Standard or Metric	
Computer	Integral industrial rack-mount	Including LCD and keyboard
Operating system	Windows	
Nozzle gap controller	Standard for FLC series	
Assist of shield gas system	Yes	Optional multiple gasses
Hand-held controller	Yes	
Specialty software	User-friendly Flex-Laser	Also available with AAA G-code editor
Vision	Optional integral vision	Complete with tri-color illuminator
Options	Custom sizes, automatic pull-out table for 4'x4' FLC, single or multiple rotary axes for FLW, customized fixtures, automated tasks	

Assembly Automation Alternatives Inc.
 4-7550 Highway 27
 Woodbridge, Ontario, Canada
 L4H 0S2
 Ph.: 905-605-9200
 Fax: 905-605-9400

URL: www.auto-alt.com
 Email: sales@auto-alt.com