



Fiber Laser Cutting Machine - Flexi

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Fiber Laser Cutting Leads to Business Diversification

The Fiber Laser Metal Cutting technology has filled a production hole in metal forming industries, delivering flexibility as well as time and cost savings.

Adopting Fiber Laser Metal Cutting Machine is a boon for service industries manufacturing space under one roof, serve a variety of markets, including appliance, automotive, furniture, medical, electrical and industrial-hardware. It performs tool build, stamping, fabricating, assembly and painting in-house, using a variety of part materials. Its specialties breaking in to the production schedules of outside suppliers, and quality control of the parts.

User friendly benefits of Fiber Laser Metal Cutting Machine from offsite and in-house training backed by the machine's library of material-cutting conditions and job-recall capability, quickly realized the advantages of fiber-laser cutting.

Fiber Laser Cutting increases Industry ability to help customers develop parts in a quicker manner, Manufacturer can make multiple iterations of a fabricated part very quickly to validate a concept with customers, so it helps us in the early supplier-involvement process of part development."

In Metal Forming Industry requirements are from Low-Volume to High Volume in Million Parts Which are easily manufactured in Fiber Laser Cutting Machine.

It is a big solution for an Industry fabricating a stainless-steel panel which requires a size variation Now laser cutter able to create a whole family of those different-sized products/parts just by changing blank development to a laser-cutting process instead of a die-cutting process. With the In-House laser cutter. To outsource this type of work would have been costly, with lead time becoming a significant issue.

Laser-cutting machine has a lead time advantage, and better customer service.

For example, during product development, you can meet with customers and produce a prototype to use as you share your ideas. The ability to produce parts quickly is a huge advantage.

Features

- Designed to work in harsh conditions
- All mechanics designed for more than 20 years life
- Machine dynamics 200 holes/min
- Cut part accuracy +/- 50 micron
- Optics from Israel
- Machine up time <90%
- Best Service support from Highly Experienced Engineers
- Backup Laser source within warranty and post warranty
- Best Application support
- Service cost > 3% per annum
- Heavy Base Frame
- Special Grade Material thick plate for mounting Linear Guide and Rack
- In house Precision machined within 30 microns On HMC from Germany
- Light weight Gantry for High dynamics
- Original Hiwin Linear guides and Block
- Quality 6 Atlanta Racks
- Low backlash Gearbox from Germany
- Fire proof Bellow for protection
- FS Cut 2000 controller with BCS 100
- Yasakawa Sigma 7 / Panasonic A6 Motor Drives
- Raytools Autofocus head
- IPG / Raycus laser source
- 6 Zone wise fume suction
- Pallet Exchange (Optional)
- Dust proof Gas line for Process gas
- Control panel: All switchgears from Siemens, Isolated HV protected specially build to work in Harsh Indian Electrical conditions

Specifications

Laser Source	700 / 1000 / 1500 W IPG Or Raycus
X axis Stroke	1525 mm
Y Axis Stroke	3050 mm
Z Axis Stroke	230 mm
Working Area	1500 mm X 3000 mm
X – Y Positioning Accuracy"	±0.05 mm/m
Maximum Acceleration	1.5G
Rapid Speed	120 M/min
Controller	Cypcut FS 2000 (BCS 100)
Servo Motors & Drives	Yasakawa Sigma 7 / Panasonic
Rack & Pinion	Atlanta Germany Q6 Grade
LM Guide	Hi Win (Taiwan) ORIGINAL
Cutting Head	Raytool Autofocus BM 109 Motorized (Swiss)
Gear Box	Precision Low Backlash (German)
Water Chiller	Tongfie (China)
Dual Pallet Changer	Optional
Enclosure Body	Optional
Pneumatics	SMC (Japan)
Gas Pressure Control System	SMC / ASCO(Japan)
Gas Pressure Limit Switch	Danfoss (Germany)



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