



## Fiber Laser Metal Cutting Machine-1010

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Metal Fabricating Business is a largest exploring industry globally, Adopting High Power Fiber Laser up to 1-kW from SIL is possible to become more efficient and business opportunities in

Various industries such as Railways, Automobile, Energy, Aviation, Commercial Vehicle, Sheet Metal Processing etc.

From SIL 3015 3-kW power onward it can cut Mild Steel, Stainless Steel, Coated Stainless Steel, and High-Strength steel, Aluminium, Brass, and Nickel easily.

The machine features a durable rack-and-pinion motion system, lightweight gantry with synchronized dual servo motors and an Auto Focus Cutting Head. Fiber Laser energy saves up to 70 percent as compared with traditional CO2 laser cutters, It can provide cutting speed to 40m/min and rapid speed of 180/min with 2.5-G acceleration.

# Features

- Designed to work in Indian 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. (Get image from design)
- 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	500 / 700 / 1000 W (IPG Or Raycus)
X axis Stroke	1000 mm
Y Axis Stroke	1000 mm
Z Axis Stroke	150 mm
Working Area	1000 mm X 1000 mm
X- Y Positioning Accuracy	±0.03 mm/m
Repositioning Accuracy	±0.01 mm/m
Maximum Acceleration	1 G
Rapid Speed	80 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	Included
Enclosure Body	Optional
Pneumatics	SMC (Japan)
Gas Pressure Control System	SMC / ASCO(Japan)
Gas Pressure Limit Switch	Danfoss (Germany)

## Notes

- Machine should be serviced by SIL professional only. All consumable parts should be from SIL only.
- Cut part accuracy specified is for 0.05/300mm
- Laser source brand and power can change as per availability, and not cover failures due customer end accidental/misuse damages.
- Service cost predicted don't cover accidental/ misuse damages



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