

CF Series Fibre Laser Cutting Machines

CF series fiber laser cutting Machines, absorbed advanced technology from Europe & USA, are high end NC machines. Product, certificated by ISO9000 Quality Management System, is presenting stable cutting performance with 90% imported brand components from overseas, such as laser source, cutting head, NC controller & auto-nesting software etc. Cutting machine is structured with gantry frame, which has excellent strength and stability, and high precision ball screw with linear slider driven.

Machine has been well calibrated to achieve fast cutting speed without compromising high precision, for sheet metal cutting less than 4mm applications. Furthermore, fiber laser, which is a new technology with best beam quality, perfect focused beam spot size, high plug efficiency, maintenance free, cost effective and compact size, no lasing gas required, is deemed to be a revolutionary manufacturing tool of machinery.







Features:

- A perfect combination of fiber laser with CNC technique
- Professional CNC control system with user friendly HMI
- Gantry structure
- Shuttle loading table
- AC servo motion control with fully enclosed high precision ball screw and linear slider
- Auto tracking capacitor sensor to maintain constant focus position
- High pressure of assisted gas, up to 20Bar
- Suction system to remove fume and dust
- Can be extended for pipe cutting

Applications:

Cutting sheet metals such as mild steel, stainless steel, titanium, zinc coated steel, etc.

Technical specifications:

| Model | CF3015 | CF1212 |
|-----------------------|------------------------|------------------------|
| Laser Source | Fiber Laser | Fiber Laser |
| Wavelength | 1070nm | 1070nm |
| Laser Power | 500W (or 1000W) | 500W (or 1000W) |
| X travel | 3000mm | 1250mm |
| Y travel | 1500mm | 1250mm |
| Z travel | 100mm | 120mm |
| Positioning accuracy | ≤±0.03mm/m | ≤±0.03mm/m |
| Repeatability | ≤±0.02mm | ≤±0.02mm |
| Max sheet dimension | 3000 x 15000mm | 1250 x 1250mm |
| Max positioning speed | 60m/min | 60m/min |
| Power supply | 380VAC/50Hz/60A/3phase | 380VAC/50Hz/60A/3phase |

Remark:

- 1. Other fiber laser power levels available upon request.
- 2. Other size tables available upon request.

Cutting capabilities:

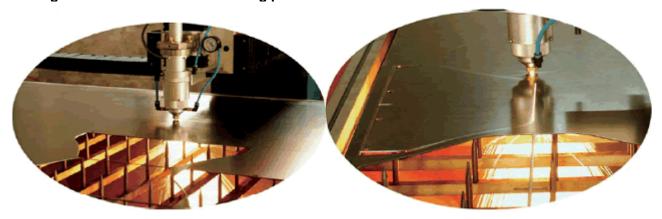
| Laser power | Metal | Metal thickness | Cutting speed | Assistant gas |
|-------------|-----------------|-----------------|---------------|---------------|
| (W) | | (mm) | (m/min) | Assistant yas |
| 1000 | Stainless steel | 1.0 | 22 | Nitrogen |
| 1000 | Stainless steel | 2.0 | 6.5 | Nitrogen |
| 1000 | Stainless steel | 3.0 | 3.5 | Nitrogen |
| 1000 | Stainless steel | 4.0 | 2.0 | Nitrogen |
| 1000 | Stainless steel | 5.0 | 0.8 | Nitrogen |
| 500 | Stainless steel | 1.0 | 12 | Nitrogen |
| 500 | Stainless steel | 1.2 | 9.6 | Nitrogen |
| 500 | Stainless steel | 2.0 | 2.4 | Nitrogen |
| 500 | Stainless steel | 2.5 | 1.5 | Nitrogen |
| 500 | Stainless steel | 3.0 | 0.9 | Nitrogen |
| 1000 | Mild steel | 1.0 | 12 | Oxide |
| 1000 | Mild steel | 2.0 | 7 | Oxide |
| 1000 | Mild steel | 3.0 | 4 | Oxide |
| 1000 | Mild steel | 4.0 | 2.5 | Oxide |
| 1000 | Mild steel | 5.0 | 2 | Oxide |
| 1000 | Mild steel | 6.0 | 1.6 | Oxide |
| 1000 | Mild steel | 8.0 | 1.1 | Oxide |
| 1000 | Mild steel | 10 | 0.8 | Oxide |
| 500 | Mild steel | 0.5 | 24 | Oxide |
| 500 | Mild steel | 1.0 | 15 | Oxide |
| 500 | Mild steel | 1.5 | 4.8 | Oxide |
| 500 | Mild steel | 2.0 | 3.6 | Oxide |



| 500 | Mild steel | 2.5 | 2.4 | Oxide |
|-----|------------|-----|-----|-------|
| 500 | Mild steel | 3.0 | 1.8 | Oxide |
| 500 | Mild steel | 4.0 | 1.5 | Oxide |
| 500 | Mild steel | 5.0 | 1.2 | Oxide |
| 500 | Mild steel | 6.0 | 1.1 | Oxide |

The above data are for your reference only. The actual cutting speeds depends on gas parameters, lasers, cutting heads,

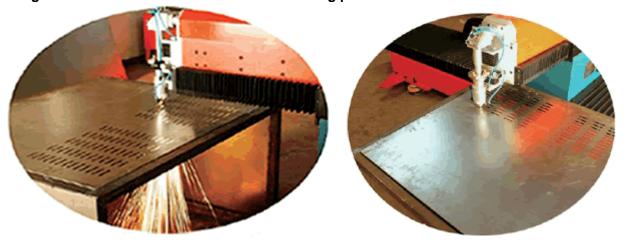
Cutting Solutions----Metal sheet being processed



Cutting solutions-----Metal tube being processed

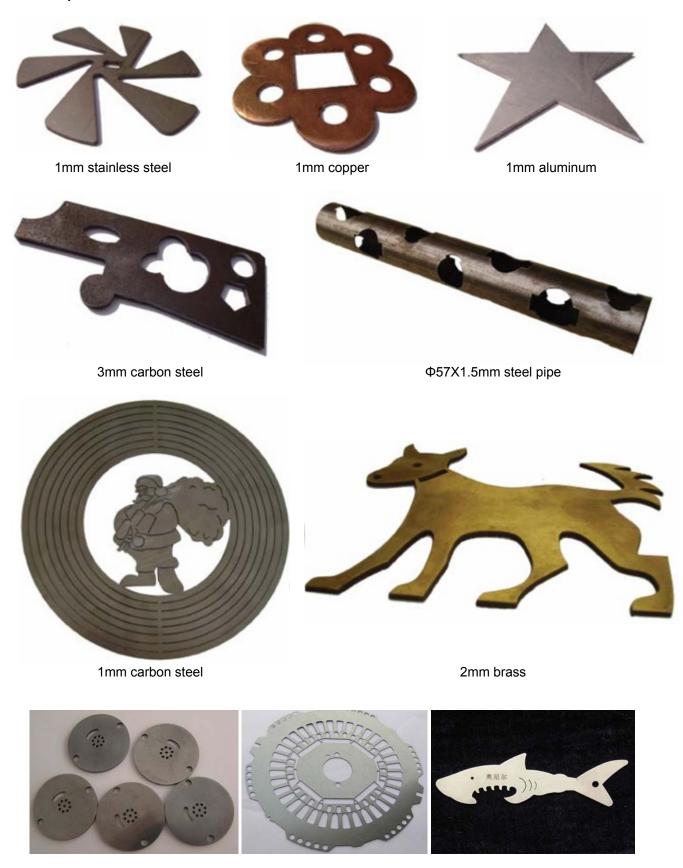


Cutting solutions-----Metal racks and cabinets being processed





Cut Samples



Sintec Optronics

