

Laser cutting Machine

DMLIC1070F1KC **DMLIC1070F2KC**
DMLIC1070F3KC **DMLIC1070F4KC**
DMLIC1070F6KC **DMLIC1070F8KC**
DMLIC1070F10KC



DESCRIPTION

Laser cutting is a process that uses a laser to cut different materials for many applications.

Laser cutting is a thermal cutting process for processing sheet metal. The laser beam is created by the laser source (resonator), conducted by a transport fiber or mirrors in the machine cutting head where a lens focuses it at very high power on a very small diameter. This focused laser beam meets the sheet metal and melts it. Fiber lasers are the most efficient way in laser cutting. The laser beam is created by an active fiber and transmitted over a transport fiber to the machine cutting head. Fiber lasers are significantly smaller than CO₂ lasers and generate several times the power from the same amount of current. A fiber cutting system is primarily suited for processing thin to thick sheet metal from steel, stainless steel, aluminum and also other non-ferrous metals (copper and brass).

ADVANTAGES

- Fast cutting speed
- Good cutting effect
- Rapid processing times
- Operating at high power with great efficiency
- So precise that the beam won't cause any damage to the surrounding material of the object that they are working in
- Lower power consumption rate.
- Reduce the mechanical stress that a sheet metal form experiences while being cut
- The heated zone is incredibly small
- Work piece is exposed to little or no heat, preserving the properties of the material being handled
- A suitable tool for creating all
- The most efficient and cost-effective fabrication methods

APPLICATIONS

- Fiber lasers can cut through thin materials at very high speeds
- To cut reflective materials without risk of reflections causing damage to the machine, which allows metals such as copper, brass and aluminum to be cut without issue.
- It can so easily cut through thick materials like steel

INDUSTRIAL USERS

- Metal Industry
- Home Appliances
- Automobile manufacturing
- Power plants and defense industries
- Medicine
- Aerospace
- Electronics

SUPPORT FEATURE

- One-year warranty and full after-sales
- Product delivery with installation.
- Complete training with safety tips by expert trainers.
- Maintenance of all products in case of technical issues.
- Product guide with detail explanation.

TECHNICAL SPECIFICATION

Laser type	Fiber laser
Wave length	1070 nm
Power	(1, 2, 3, 4, 6, 8, 10) Kw
Laser mode	CW
Z-axis travel	150mm
Positioning accuracy	≤0.05±mm
Repeatability	≤±0.03mm
Max cutting Speed	20m/min
Workstation bearing capacity	1200 kg
Cutting width	0.5-4 mm CS
Work piece table	3000mm*1500mm (variable customizable to larger sizes)
Cooling	Water