

# Low cost CO<sub>2</sub> Laser cutting/Engraving System



## Laser Cutting System Specifications :      CO<sub>2</sub> Laser LEC-100 Specifications:

The Laser cutting system comprises of two major subsystems namely; Laser & CNC table. The details of these subsystems and their components are listed bellow -

1. Laser
  - 1.1. Laser head
  - 1.2. RF Power supply/DC Power Supply
  - 1.3. Controller
  - 1.4. Chiller
  - 1.5. Beam Delivery system
    - 1.5.1. Mirrors
    - 1.5.2. Focusing lens
2. CNC table
  - 2.1. Sheet cutting bed
  - 2.2. CNC controller
  - 2.3. Electrical panel
  - 2.4. Exhaust

Power output	100 Watt
Mode	TEM <sub>00</sub>
Beam Dia	7 mm
Beam Div. Full angle	2.2 mrad
M <sup>2</sup>	1.1
Polarisation	Random
Operating Mode	CW or pulsed
Power stability	1 %
Wavelength	10.6 μm
Cooling	1.5 lit./min
Warranty	2 yrs.
Laser head size	175 x 15 x 15 cm
Weight	10 kg.
Power Supply size	50 x 20 x 16 cm

### **CNC table :**

1 m x 1 m travel, stepper motor drive, controller with software to cut any desired shape or engrave for Industrial production or Education in laser processing

## **Material for Engraving/marketing/etching/cutting by CO<sub>2</sub> Laser LEC-100**

- Polyester film
- Rubber
- Bamboo
- Leather
- Fabrics
- Wood
- Glass
- Crystal
- Coated metal
- Stone, Granites & marble
- Mat boards & paper products
- Melamine
- Rubber stamp
- Gasket
- Plexiglass
- Polymers
- Acrylic
- Polyesters
- Polyamide
- ABC
- PVC
- Polyethylene
- Styrene



Plastic



Metal



Acrylic



Wood Die Board

## **Cutting Data :**

### **A. Non metals :**

<b><u>Material</u></b>	<b><u>Power (W)</u></b>	<b><u>Thickness mm</u></b>	<b><u>Speed mm/min</u></b>
Acrylic	100	3	2000
Acrylic	100	6	1000
Acrylic	100	10	650
Hardwood	100	4	2800
MDF	100	7	1500
Polyethylene Film	100	-	100000
Plywood	100	5	3000
Plywood	100	9	2000
Shoe Inserts	100	-	3810
Packaging Pet	50	-	25400
Cell phone Keypad	25	-	0.762
Foam Boards	100	25.4	1270
Wood Veneer	25	0.5	6350
Sand Paper	100	0.5	33020
Velvet Cloth	25	-	5080
Styzafoam Panels	50	76.2	508
Speaker Membrane	25	-	0.847
Hoover Bags	100	-	29.63
Polyester Sheet	20	0.125	6.35

### **B. Metals :**

<b><u>Material</u></b>	<b><u>Power (W)</u></b>	<b><u>Thickness mm</u></b>	<b><u>Speed mm/min</u></b>
Stainless Steel	100	0.5	1800
Stainless Steel	100	1	800
Stainless Steel	100	1.5	400
Mild Steel	100	1	400



### **Dealers/Branch**

For Further Details Please Contact:

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