TRABISS INTERNATIONAL

Laser engraving machines

Trabiss International
Molenveld 4
1761 BS Anna Paulowna
Holland
T:+31 223 535299
M: +31 655776597
E:info@trabiss-int.com
Skype: trabiss.international

Laser engraving and cutting machines (organic material)

These machines are mainly used to engrave and cut organic material. It is possible to mark text on Stainless steel and aluminium by using an additive called Cermark or Thermark. After spraying this additive the laser will mark (etching) black text on the surface what will be very durable (NASA use it in space). The spray can be washed off with normal water.

The available sizes:

Closed design:

- 400 x 300 mm
- 500 x 300 mm
- 600 x 400 mm
- 900 x 600 mm
- 1300 x 900 mm
- 1400 x 900 mm
- 1600 x 1000 mm

Flatbed design:

- 1300 x 2500 mm
- 1500 x 3000 mm

Laser engraving and cutting machine TI-xxxx-xxW	Description:
	- Lenses and mirrors imported from Singapore - Water pump (cooling the laser tube) or water chiller - Airpump ACO-005 (cooling laser head and lens) - Red dot light for marking - USB port for offline working - Leetro control system - Hiwin rail from Taiwan - Servo motors (Chinese) - Servo drives - Dust and smoke exhaust fan 350 or 550 Watt - Lasercut software (V5.3) Dutch or English - Cutting table with slats - Honeycomb table - Auto focus height control - Up/down table - Rotary ax (optional)

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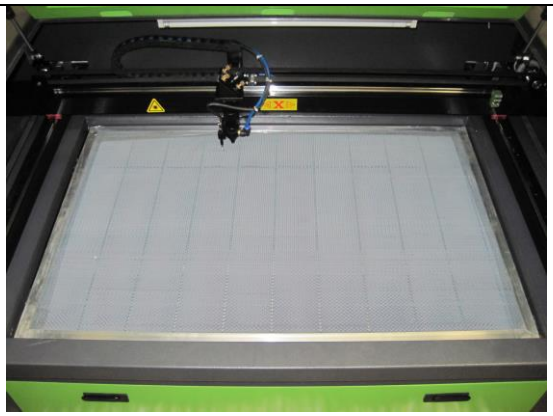
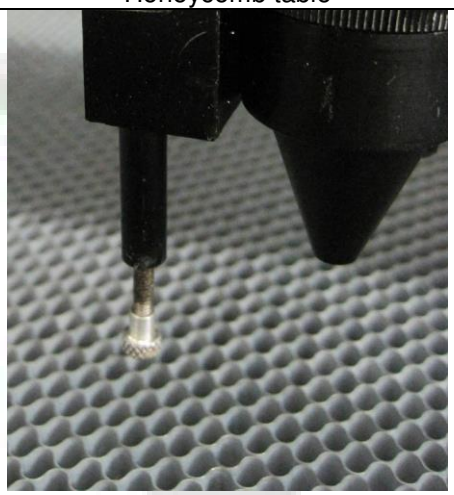
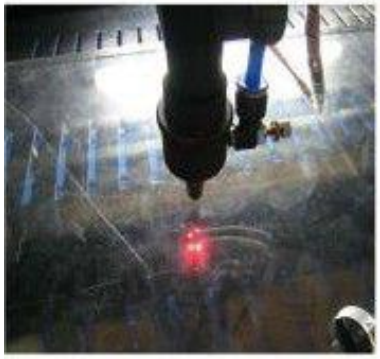
Power supplies and controls


Honeycomb table


Up/down table


Auto focus height control


Red light pointer

DSP control


Airpump (membrane) ACO-005

Water chiller

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 Dust and smoke exhaust fan	 Laser tube

Specifications:

Accuracy of the machine	- < 0.02 mm
Repeatability	- < 0.02 mm
Name and laser manufacturer warranty	- Link CNC, 1 year warranty
Lifetime of the laser	- Glass laser tubes last approximately 6000-10000 hours.
Maintenance cost of the laser and mirrors	- Part list will be added separately.
Manufacturer of motors and drives	- Leadshine stepper motors, Panasonic or Chinese brand servo motors
Maximum speeds	- Engraving speed – 1000 mm/sec - Cutting speed - 400 mm/sec
Cutting thickness	- Depends on the material and Laser power.
Marking depth	- Depends on the material and Laser power
Possible file types	- AI, DXF, BMP, JPG, PLT, PNG. Possible to integrate laser output in Coreldraw and Autocad.

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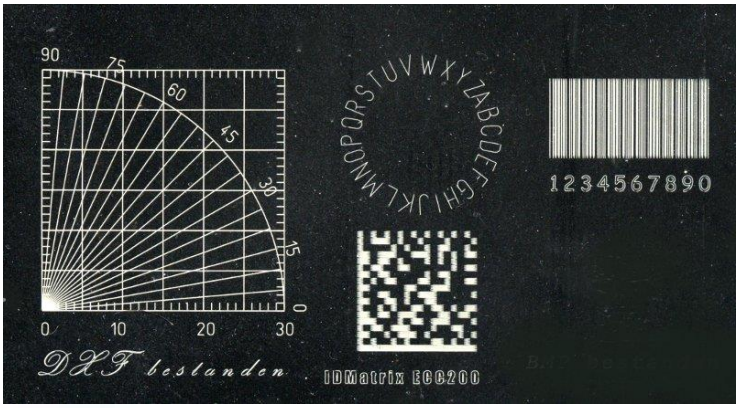
Some examples of laser engraving and cutting:



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