

PERFECT LASER

CNC Router For Advertising

(Model:PEM-1212 / PEM-1215 / PEM-1325)



**Updated
Technology**

**Friendly Man-
Machine
Interface**

**All in one
function**

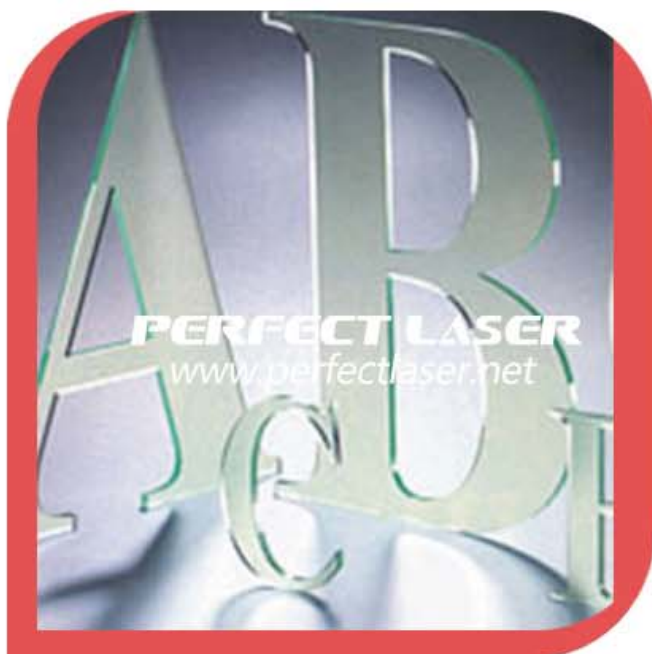
**Can apply to
metal and
non metal**

Application industry

Acrylic, color plates, PVC, plastic board, light board, light boxes and other advertising material laser and mechanical engraving or cutting; This machine also used for Woodworking, dimensional wave board processing, cabinet doors, craft wooden doors, and company logo laser engraving carving; furniture, decoration, wooden doors, hollow carved, musical instruments and other items mechanical cutting.

Applicable Materials

Acrylic, PVC, Double Color Sheet, Wood, Metal Products



PERFECT LASER

Main Spindle



Drive Chain



Machine Configuration



Auto Oiling Structure



Germany High Technology Main Spindle



1.

**Break Point and
Break Knife Continue
Engraving Function**

Can engrave at any place as you like.

2.

Large Internal Memory Capacity

Capacity of over 500M is able to store 40 processing files simultaneously and open and process any of them.

3.

High Compatibility

Can work with CAD/CAM software such as Type 3 /Artcam / Castmate / Proe /CorelDraw / Artcut (Window98/NT/2000/XP)

4.

**Auto tool correction function when
do cutting and engraving**

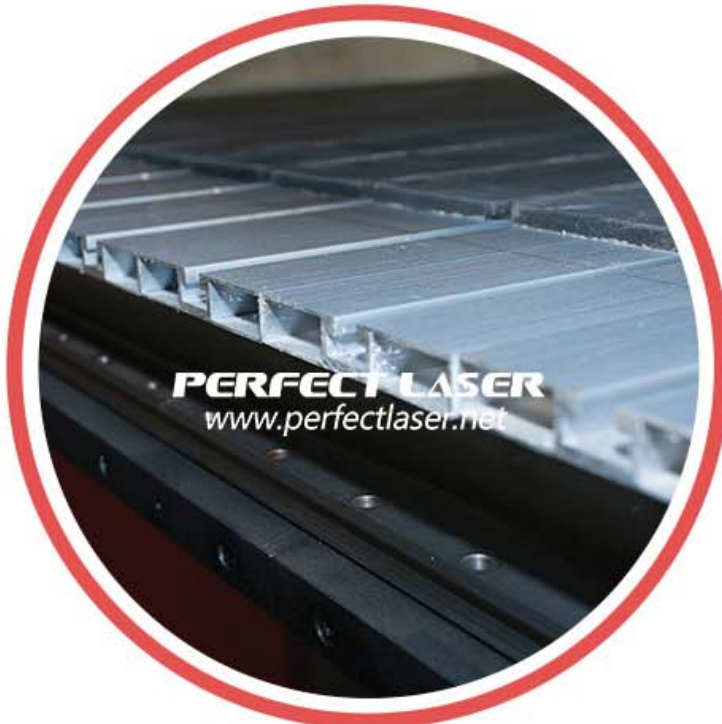
Enable higher precision and save working piece.



2. Auto Oiling Structure

Guarantee the long term running of the mechanical aspect

Details Instruction



1. Aluminium Alloy and Cast Steel Structure

Adopt Cast Steel Structure body, gantry type, stable and bearable. Non-deformation configured long lifetime using.

2.

Germany High Technology Main Spindle

Water cooling, high power spindle, low noise, and big cutting force to assure the long time working



3.

Germany Double Nuts Automatic Ball Screw

Excellent XY Gear Transmission , Z ball screw made in Germany and sideways made in Japan or Korea.

4.

Taiwan Linear Guide Rail

The bearing of the lead guide rail is face to face
Using precision is high for a long time.



5.

Chinese Top Brand Motor and Driver System

Independent high-speed "Leadshine" motors and drivers, assures high carving speed and Long life of the power

6.

Power Switches

With "Over-Current Protection" function design, more safe during long-term using.



9.

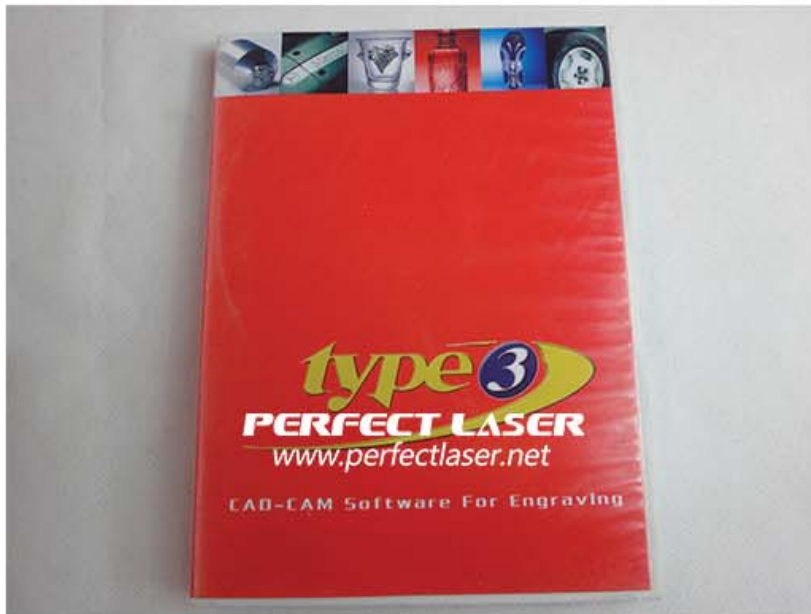
Engraving Knife

Adopt hard alloy
Not easy to worn
Can work for long time

10.

Pump

Adopt hard alloy
Not easy to worn
Can work for long time



11.

Type 3 Software

Graphic clear, more powerful
carving function, high precision.
Easily make relief, and other
three-dimensional sculpture.

1.

Advanced DSP Digital-Control System

Handle operation and large liquid crystal display brings out more convenient operation, simpler maintenance and more human nature on the design of the machine



2.

Rotary Fixture

Special design for engrave round and cylindrical work-pieces
Standard Diameter is 200mm
(can be customized)

3.

Water Cooling System & Stainless Steel Water Slot (special design for metal)

Water cooling system:

Cooling the heat of cutting knife when engraving metal products

Stainless steel slot:

Used in flushing the scraps, especially in cutting, engraving metal work-pieces

Stainless
Steel Water Slot



4.

Vacuum Table for Woodworking

- ◆ 1.Vacuum Working Table
Absorb the easy-move and irregular working pieces.
- ◆ 2.8 Zones Vacuum Table
Can absorb any shape of work-pieces
No need to use any fixture assist



5. Dust Collecting System

Collect and clean the scraps and powder (such as wood and acrylic powder), Protect the nice working environment

Single Dust Collector

Double Dust Collector



6.

**Acrylic Polishing Machine
(Special design for Acrylic)**

Specially used for polishing acrylic edge

Can modify acrylic edge to be smooth and elegant



Technical Data



Model	PEM-1212	PEM-1215	PEM-1325
	1200*1200*200 mm	1200*1500*200 mm	1300*2500*200 mm
Working Area(X,Y,Z)	Perfect Laser also have the ability to custom-made according to user's special demand		
Spindle Power	2.2KW		
Optional Spindle Power	3KW, 4.5KW, 5KW		
Table material	Aluminum Alloy, Cast Steel Structure		
Maximum feed height	80mm-300mm		
X,Y,Z Guide way rails type	Round Guide Rail, Ball Screws Transmission		
Working Delicacy	0.025-0.05mm		
Max Engraving Speed	25,000mm/min		
Resolution ratio	0.002mm		
Repetition accuracy	±0.02mm		
Spindle Rotating Speed	18000 - 24,000rpm		
Spindle cooling	Water Cooling		
Drive motor system	Step Motor and Step Driver(Option: Servo System)		
Interface	PCI Port or USB Port		
Memory buffer (Flash)	500MB (U Disk)		
Engraving Command	G code, u00, mmg, PLT, HPG		
Command language system	English Version, Windows 98/2000/XP Operation System		
Operational Software	Original Type3 Software, ArtCam software or Wentai Software		
Command language system	English Version, Windows 98/2000/XP/Win7 Operation System		
Software Compatibility	Support CAD/CAM software, PLT format, Corel Draw, Auto CAD		
Working temperature	0-45℃		
Relative humidity	30% - 75%		

PERFECT LASER
www.perfectlaser.net

- * 12 Months Guarantee
- * 30 working Days Lead Time
- * VCD Training , Easy Installation
- * 12 Hours Response
- * TT/Western Union / Paypal / Ali Trade Assurance Payment
- * Sea Shipping

FAQ

Q: What's the package?

A: We have 3 layers package. For the outside, we adopt wood craft case. In the middle, the machine is covered by foam, to protect the machine from shaking. For the inside layer, the machine is covered by thickening plastic bag for waterproof.

Q: Will the package damaged during transportation?

A: Our package is considerate all the damage factors and make it to be safe, and our shipping agent have full experienced in safe transportation. We have exported to 180 countries worldwide. So please don't worry, you will receive the parcel in good condition.

Q: How to install and run the machine?

A: Our technician have installed the machine before shipping. For some small parts installation, we will send detail training video, user's manual along with the machine. 95% customers can learn by themselves.