

PERFECT LASER

Standby Small CNC ROUTER

(MODEL:PEM-4040)



**Updated
Technology**

**Friendly Man-
Machine
Interface**

**All in one
function**

**Can apply to
metal and
non metal**

Application

Our Standby small CNC router are widely used in advertising, seals processing, handcrafts, special instruments processing, little moulds processing, etc. And the engraver can engrave kinds of metal or nonmetal stuff, such as: iron engraving , iron cutting, copper engraving, copper cutting ,aluminum engraving, aluminum cutting, plastic engraving, plastic cutting ,wood engraving, wood cutting .etc.



1)X, Y, Z axis use imported ball bearing guide screws. It is precise and fast. Even the letters of 1mm can be clearly discernible. The small-power machine uses large-power main axis, it is an ideal product for manufacturing labels, construction models and moulds in batches.

2)High speed calculation : It uses DSP64 contouring control system and FPGA technology which can continually and smoothly run the three axes with high speed. It has the ability of calculation of 5000 vector/s.

3)Steady data transmission .The data transmission uses the technology of ISA/IP DNC/IP straight association, which can associate the machine without interruption, and it has no limitation of the amount of the document.

4)Double-nut guide screw .It uses Germany-imported high-precision ball bearing guide screw which can eliminate cracks automatically. Coordinated with the imported shaft coupling, it can realize precise control. It uses straight line guide rail (cylinder or square), which can ensure the working life.

5)Connection with the computer via USB interface enables data to be transmitted in a second, supports hot plug and play, no driver installation required(Window98/NT/2000/XP).

1. Compare with PEM-3030

For standby small PEM-4040 CNC Router, both the spindle and working table can move. But the worktable of desktop machine PEM-3030 is fixed and only the spindle can move. On the other hand, it is heavier. With these features, the precision of standby CNC router is higher.

2. Thicken machine bed, no distortion, longer life time.

Standby small PEM-4040 CNC Router is heavier, the material is thickened, so the machine is not easy to get distorted. As a result, the stability is higher, and has a longer life time.



1.

CNC Cutting Head

High precision cutting head ,
Can realize high speed and
high precision cutting working. Long
life and simple maintenance.

2.

Taiwan Made Ball Screw Rod

The whole transmission system adopt
Taiwan "Double-win" brand high
precision (Dia. 50mm) ball screw rod
and high accuracy linear running guide
rail, which can improve the precision and
accuracy of the machine.





3.

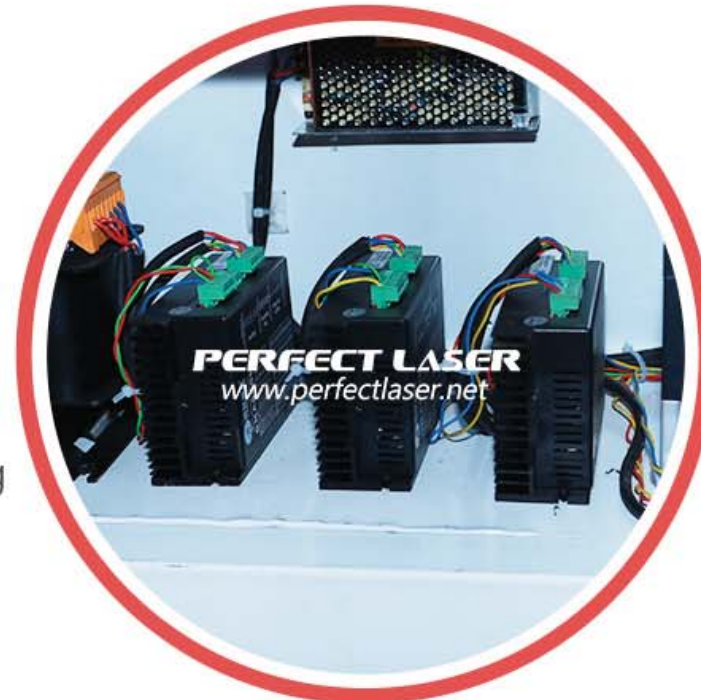
Chinese Top Quality Step Motor

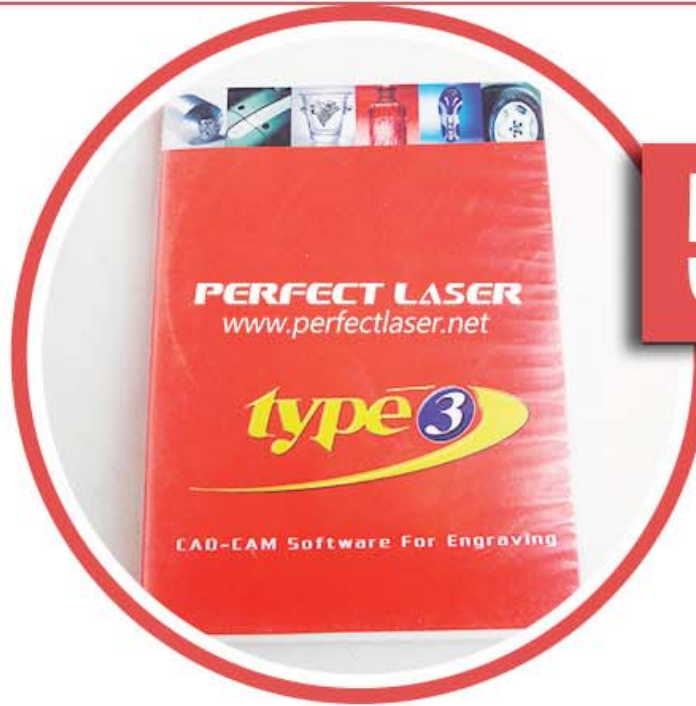
The whole transmission system adopt Taiwan "Double-win" brand high precision (Dia. 50mm) ball screw rod and high accuracy linear running guide rail, which can improve the precision and accuracy of the machine.

4.

Driver System

Independent high-speed "Leadshine" motors and drivers. High-power cutting spindle assures high carving speed.





5.

Professional Type 3 Software

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

6.

Control Card

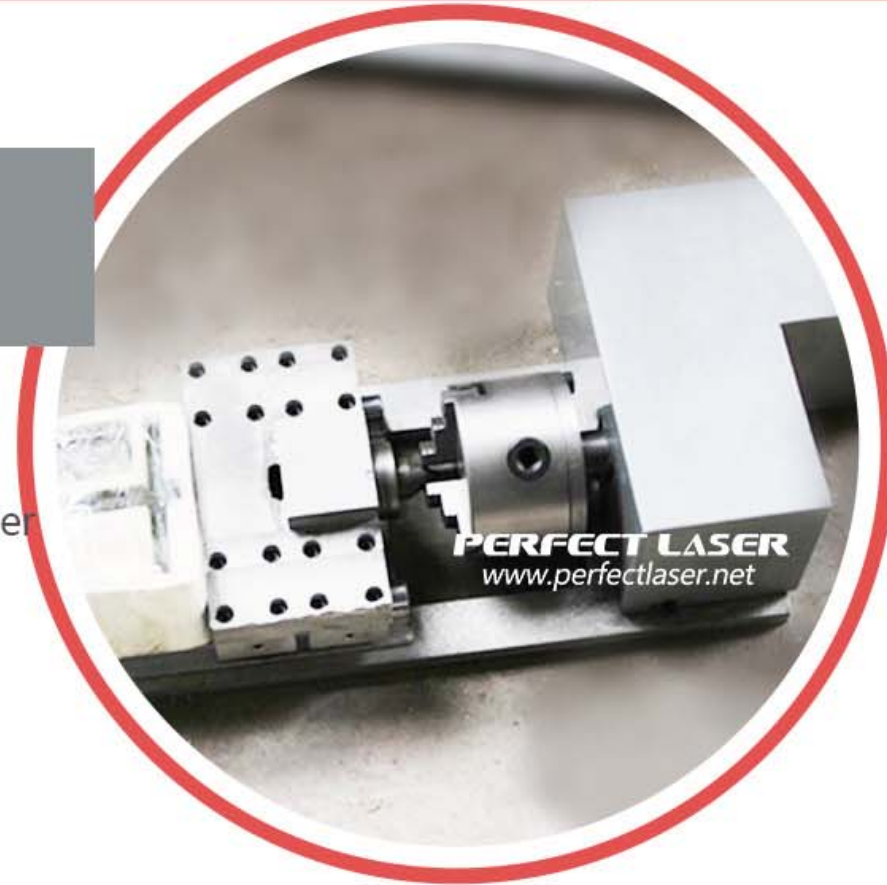
High speed and resolution, Very easy to operate.



1.

Rotary Fixture

Special design for engrave round and cylindrical work-pieces, Standard diameter is 150mm, Bigger diameter can be customized according to you demand.



2.

Acrylic Polishing Machine

Specially used for polishing acrylic edge. Can modify acrylic edge to be smooth and elegant



Model	PEM-4040	PEM-4040S
Power stroke of X,Y,Z axis	400*400*80mm	400*400*80mm
Size of working table	520×540mm	520×540mm
Function	Flat engraving	Flat + Rotary engraving
Power of main axles	1.5KW	
Running location precision of X,Y,Z axis	±0.03mm	
Repeating location precision of X,Y,Z axis	±0.01mm	
Power stroke of Z axis	120mm	
Working style	Stepping motor (Option :Servo Motor)	
Spindle speed of frequency conversion main axis	6000-24000rpm/min	
Working voltage	AC220V/50HZ	
Engraving order	G Code.uoommg	
Optional main axis and Cartridge	φ3.175.φ6	
XY Running sensitivity	0.02mm	
Optional Item PERFECT LASER www.perfectlaser.net	Rotary Fixture	
	Acrylic Polishing Machine	

- * 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.