CNC Carving and Engraving Machine





Application

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.













Driver System

Transmission Rod









Large Internal Memory Capacity

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

High Compatibility

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

Auto tool correction function when do cutting and engraving

Enable higher precision and save working piece.





Auto Oiling Structure

Guarantee the long term running of the mechanical parts

High power frequency changing water cooled spindle

Can process hard materials efficiently. Enable long-term use and high power of spindle



PERFECT LASER www.perfectlaser.net



Aluminium Alloy and Cast Steel Structure

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



Germany High Technology Main Spindle

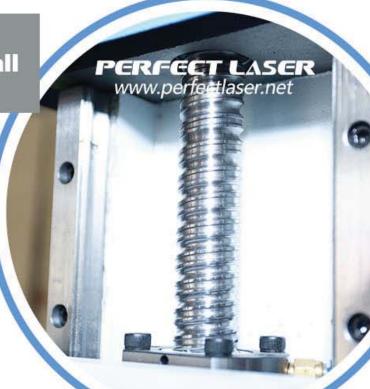
Water cooling, high power spindle, low noise, and big cutting force to assure the long time working

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Germany Double Nuts Automatic Ball Screw

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



Taiwan Linear Guide Rail

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





Power Switches

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





Chinese Top Brand Motor and Driver System



7

Drive Chain

Protect all the electrical wires,
ensure safety and long life using.
Easy to find the errors by pointing
different color of wires inside of the chains.





8.

Engraving Knife

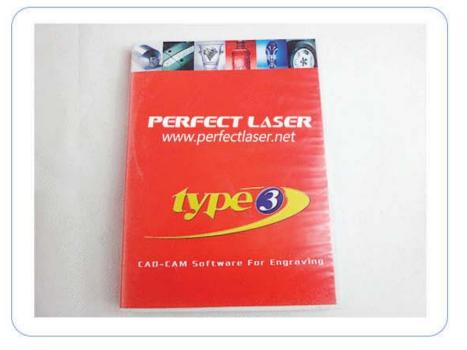
Adopt hard alloy
Not easy to worn
Can work for long time







China Top brand Pump, the pressure is powerful, to help cooling spindle through inlet and outlet system efficiently, enable long-term use and high power of spindle.





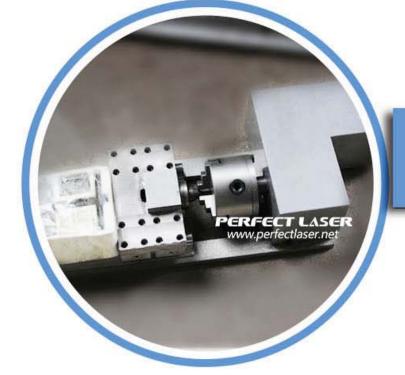
Graphic clear, more powerful carving function, high precision. Easily make relief, and other three-dimensional sculpture.



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





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





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



Single Dust Collector Double Dust Collector



Dust Collecting System

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





Acrylic Polishing Machine (Special design for Acrylic)

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





Model	PEM-1212	PEM-1218	PEM-1325
	1200*1200*200	1200*1800*200	1300*2500*200
	mm	mm	mm
### THE TEN TO THE TEN	Perfect Laser also have the ability to custom-made		
Working Area(X,Y,Z)	according to user's special demand		
Spindle Power	2.2KW		
Option Spindle Power	3KW, 4.5KW, 5KW		
Table material	Aluminum Alloy, Cast Steel Structure		
Maximum feed height	80mm-300mm		
X,Y,Z Guideway 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 PERFECT LASER		
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	English Version, Windows 98/2000/XP Operation		
system	System		
	Original Type3 Software, MACH 3, ArtCam software		
Operational Software	or Wentai Software		
Command language	English Version, Windows 98/2000/XP/Win7		
system	Operation System		
The or the second	Support CAD/CAM software, PLT format, Corel Draw,		
Software Compatibility	Auto CAD		
Working temperature	0-45℃		
Relative humidity	30% - 75%		



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





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.