

PERFECT LASER

**150w 180w 260w 300w
Mix Cutting Laser Cutting Machine
For Both Metal and Non-Metal Materials**

(Model: PEDK-130250M)



1.

**1 Machine,
2 Usages**

2.

**150w / 180w /
260w / 300w
Super Power**

3.

**Auto Focus
Laser Cutting Head**

4.

**Support Cut Both
Metal & Non-Metal
Materials**

Machine Introduction

- 1** The super high photo-electric conversion efficiency can be up to about 70%. So the machine runs with the lowest power consumption compared to other laser cutting machines under output power. The cutting lost is the lowest.
- 2** With laser beam of good quality from high power laser tube, the focus spot is super fine, and the cutting seam is very smooth. Then the efficiency can be higher, and the quality is better.
- 3** The efficiency is very stable and reliable, and you have no need to adjust the light path. So it is easy to operate and maintain the machine.
- 4** The machine costs little water and energy. So the running cost is lower.

Metal Cutting



Stainless Steel



Carbon Steel



Mild Steel

Non-Metal Cutting



Acrylic



Wood



MDF

Laser Cutting Table



Control Panel



Guide Rail



Mix Cutting
Laser Cutting Head

Items	Materials	Cut	Engrave
Metal Materials	<ul style="list-style-type: none"> ● Stainless Steel ● Mild steel ● Carbon Steel 	<ul style="list-style-type: none"> ✓ ✓ ✓ 	<ul style="list-style-type: none"> ×
Non-Metal Materials	<ul style="list-style-type: none"> ● Acrylic ● MDF ● Wood ● Plywood ● Plastic ● PVC board ● Double Color Board ● Rubber 	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> ✓

150w / 180w Co2 laser Cutting Thickness

SS304	CS45#	Acrylic	Wood	MDF
0-1.5mm	0-2mm	0-28mm	0-23mm	0-25mm

260w / 300w Co2 laser Cutting Thickness

SS304	CS45#	Acrylic	Wood	MDF
0-2mm	0-2.5mm	0-30mm	0-25mm	0-28mm

150w / 180w Cutting Parameters

Material	Thickness	Speed	Auxiliary air
Carbon steel	0.5mm	40-50mm/s	Oxygen
	1.0mm	30mm/s	
	1.5mm	16-20mm/s	
	2mm	10mm/s	
Stainless steel	0.5mm	40-50mm/s	Oxygen
	1.0mm	30mm/s	
	1.5mm	16-20mm/s	
Acrylic	20mm	2-3mm/s	AIR
MDF or Plywood	10-15mm	10-15mm/s	AIR

260w / 300w Cutting Parameters

Material	Thickness	Speed	Auxiliary air
Carbon steel	0.5mm	55 mm/s	Oxygen
	1.0mm	45mm/s	
	1.5mm	30mm/s	
	2.0mm	25mm/s	
	3.0mm	10mm/s	
Stainless steel	0.5mm	60-70mm/s	Oxygen
	1.0mm	50mm/s	
	1.5mm	25-30mm/s	
	2.0mm	15 mm/s	
Acrylic	20mm	3-5 mm/s	AIR
MDF or Plywood	10-15mm	15-20mm/s	AIR

1 Adopt Advanced Germany Technology

It supports both Metal and Non-Metal Cutting, can cut stainless steel, carbon steel, mild steel, also can cut acrylic, wood, MDF engraving and cutting.



2 Advanced Laser Optical System

Ensure Excellent Laser Beam Quality
Can strongly improve the laser power and laser beam quality.

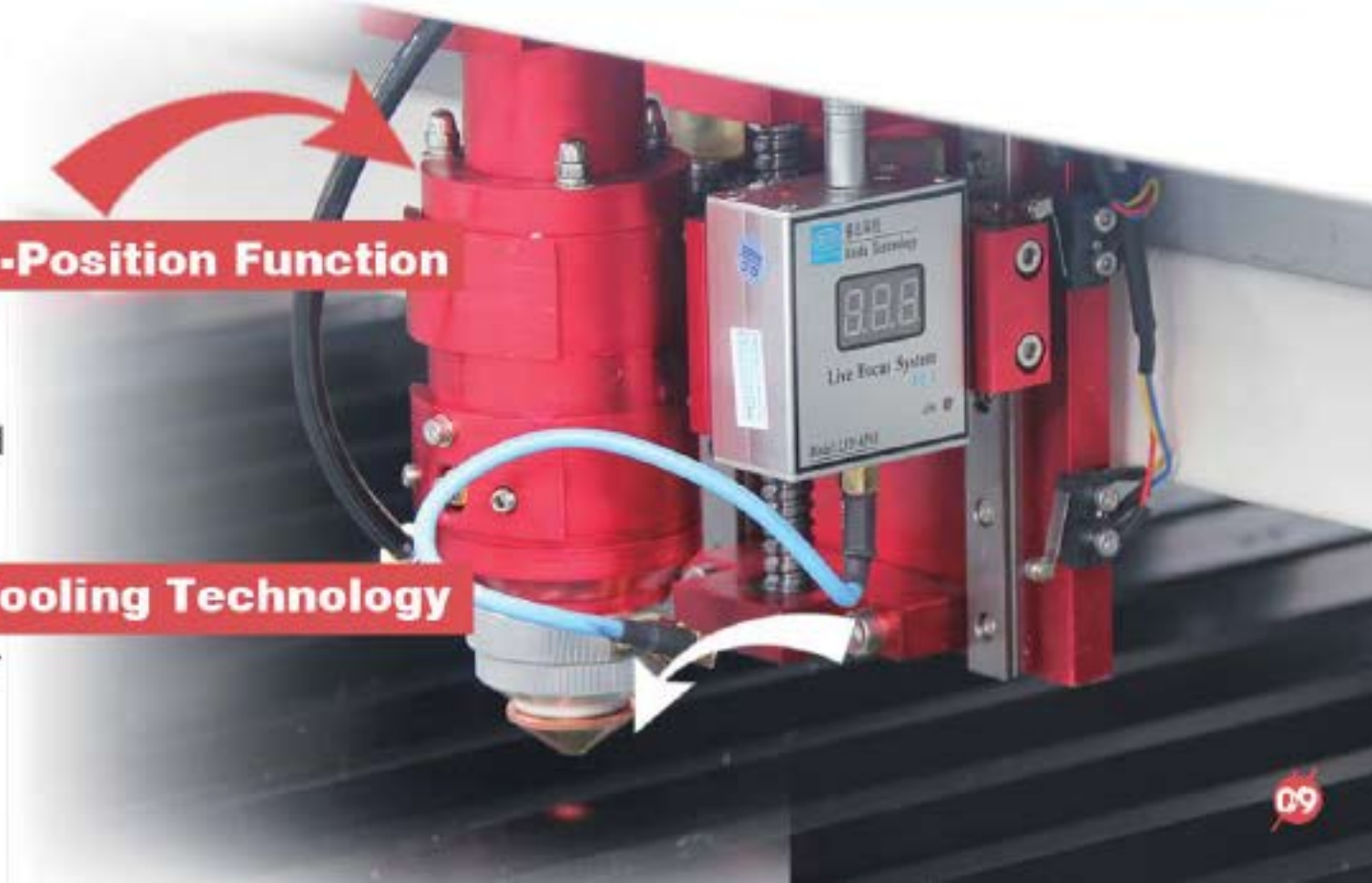


3 Laser Path Pre-View & Pre-Position Function

Laser beam is in-visible
by adopting "Red Light Pointer"
Realize the laser path pre-view and
Pre-position function.

4 Unique Mirrors and Lens Cooling Technology

All mirrors and lens is cooled by water
Takes the mirror heat during working
Prolong its' lifetime
Save future operation cost



1

Thicken Machine Bed

Adopt Thicken machine bed, heavy loading, Not easy to get distort



2

Left Side View



3

Right Side View



4

Dynamic Auto-focus Metal Sheet Laser Cutting Head

When the metal sheet is not plain, the dynamic focus laser cutting head can adjust the focusing distance automatically. Realize the accuracy of cutting effect.



5

Advanced Colorful LCD Screen+ USB Port+ Offline Control

Support Both Metal and Non-Metal Cutting Parameters.
Support U disk, USB communication.



6

Thicken Strip Working Table Specially Used for Cutting

Meets the need of diversified laser procession Heavy Loading
Suitable for cutting heavy and hard products



Standard Configuration

7.1 Adopt Belt Transmission Method
(Standard Configuration)

Use Chinese Famous Shanghai “Fulong” Brand Transmission Belt, Contains Metal Maerial Inside, Never Loosen, Anti-fire, Long Life Time.



7.2 High Speed Stepper Subdivision Driver Control System
(Standard Configuration)

Adopt Chinese Top Brand “Leadshine” Step Motor and Driving System
 Numeral timing
 Simulation quantum control laser power
 Little error, repetition high precision



Optional Item

8.1 Taiwan Imported Ball Screw Transmission Rod (Optional Item)

Adopt 50mm diameter ball screw rod
Reliably And Free Of Maintenance.
Improve the precision and accuracy of machine.
Speed is faster, Precision is higher.



8.2 Japan Imported Yawasaka Servo Motor (Optional Item)

Extreme Precise Positioning
Make Moving Positioning Mechanism
Operate Smoothly



9 USB Port



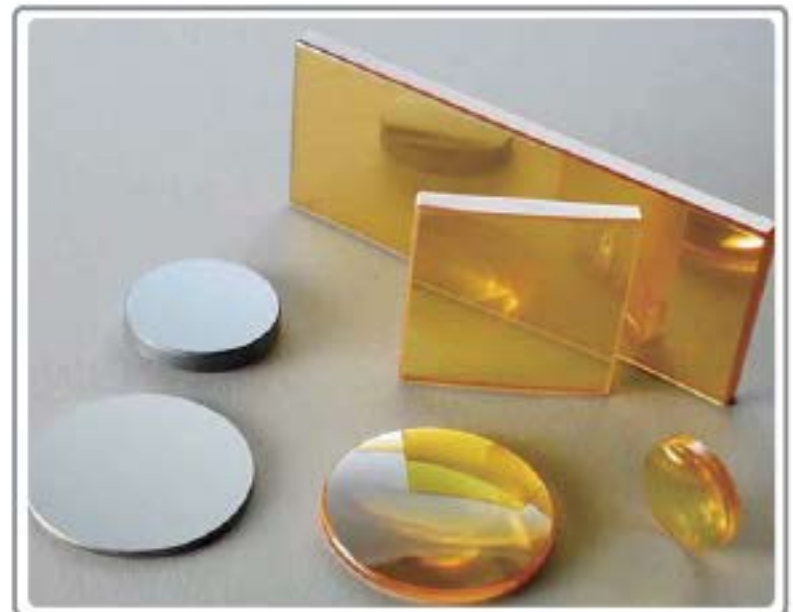
10 150w, 180w, 260w, 300w High Power Co2 Laser Tube

High Power Laser Tube
10000 hours long life span.







11 150w, 180w, 260w, 300w High Power Co2 Laser Tube High Power Laser Tube 10000 hours long life span.

Equipped with luxury consumables
Imported reflect mirror and focus lens,
Makes high efficiency and steady.



Technical Data

	PEDK-13090M	PEDK-130250M	Option
Model			
Working Area	1300*900mm	1300*2500mm	According to Demands
Laser Power	150w	180w / 260w / 300w	
Transmission Method & Driving System	Standard Machine use Belt Transmission + Chinese Top Brand "Leadshine" Step Motor and Driving System Optional Machine use Ball Screw Transmission + Japan Imported Yaskawa Servo Motor and Driving System		
Laser Type	CO2 Sealed Laser Tube, 10.6um		
Cooling Type	Water Cooling 150w-180w Machine use CW-5200, 260w-300w Machine use CW-6000		
Working Table	Stainless steel and knife table		
Laser Output Control	(0-100% Set by Software)		
Highest Scanning Precision	4000DPI		
Positioning Accuracy	PERFECT LASER www.perfect-laser.com	±0.02mm/m	
Positioning Speed	20m/min		
Max. Cutting Thickness	40mm		
Max. Cutting Speed	20m/min		
Controlling Software	DSP Control System		
Graphic Format Supported	BMP, PLT, DST, DXF, and AI, etc		
Compatible Software	CORELDRAW, PHOTOSHOP, AUTOCAD, All type of AUTOCAD software		
Drive System	High-precision 3-phase Stepper Motor		
Auxiliary Equipment	Exhaust Fan and Air Exhaust Pipe		
Controlling software	Off-computer controlling system		
Working voltage	AC110-220V ±10%/10A, 50-60HZ		
Power	<2000W		
Packing	Standard Plywood		
Warranty	12 month for whole machine, 10 month for laser tubes		
Training	VCD Training		
Weight	1000 kgs		

Item	Specification	One Year Using Quantity	Image
<p>Laser Tube</p>	<p>10000 hours lifetime Warranty Period: 10 months, Power: 150w, 180w, 260w, 300w</p>	<p>1-2 pcs</p>	
<p>USA imported (II- VI) Brand Reflect Mirror</p>	<p>High transparent rate, Efficiency and long lifespan</p>	<p>2-6 pcs</p>	
<p>USA imported (II- VI) Brand Focus Lens</p>	<p>* imported material * Protect the laser beam</p>	<p>2-4 pcs</p>	

PEDK-130250M	LENGTH (m)	WIDTH (m)	HEIGHT (m)	MEASUREMENT (m3)	Weight (kgs)
150w, 180w	3.46	2.0	1.16	8.1	1000 kgs
260w, 300w	4.13	2.03	1.12	9.4	1500 kgs



Warranty & After-sales services

- 1). Guarantee for the whole machine: 12 month
- 2). Providing professional service to customers, any call for technical help will be solved in 24 hours
- 3). Free training, free maintenance and free technical support within warranty period
- 4). We supply life-long free service in technical upgrading.

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.