

# Perfect Laser Co., Ltd. (China)



## → Company Profile

**Perfect Laser Co., Ltd. (China)** founded in 1995, located in the centre of "China Optic Valley" - Wuhan city. Occupied with 42 acreage ground, including 3000 m<sup>2</sup> R&D building and **6000 m<sup>2</sup>** production area, we have more than 180 employee, 80% of which are with bachelor degree and 3 of them with doctor degree. To be a leading high technology enterprise, **Perfect Laser** commits in research and exploitation of laser technology and integrated equipment.



## Clients All Over The World:

Executed by reliable quality and reasonable price, **Perfect Laser** products got favorable sales success and outstanding reputation and popular in more than 30 counties and areas. Our products were sold to a great deal of countries form **USA, German, Korea, Singapore, Poland, Turkey, Malaysia, India, Brazil, Saudi Arabia, Syria** to **worldwide**.

Website: [www.perfectlaser.net](http://www.perfectlaser.net) Tel:+ (86-27)-8679 1986 / 8677 5865 Fax:+ (86-27)-8678 3982

Address: Phoenix Science & Technology Park, No.154, Zhongbei Road, Wuhan, P.R.China

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## Outstanding Quality, Global Service

"Outstanding quality, global service". The whole staff of **Perfect Laser** act according to this concept with full enthusiasm and constant innovative spirit. Implement with the strategy of global sales, internationalized purchasing and internationalized technology, we established a stable platform to our long-term development. Stick with an open mind, **Perfect Laser** is willing to go forward hand in hand with global enterprises. Keeping forward looking, **Perfect Laser** will create bright future in phase with the world, with the times, and with clients' requirement.

## Highly Specialized Team

Based on a highly specialized & internationalized term and technology, **Perfect Laser** accomplished the whole processes from software exploitation, hardware design, and system detecting to technical supporting. We applied for 63 national patents, and many of our technical achievement & technical index are in the advanced position in global range.



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## *Introduction*

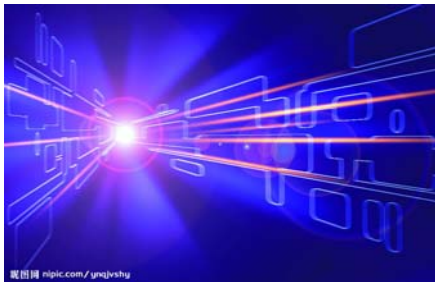
Perfect Laser PEQD series Pin Marking Machines (also call dot peen marking machine, pin stamping machine or stylus marker) are high technology products from Perfect Laser Co., Ltd., which integrate computer, automatic control and precise machinery. It is industrial marking equipment which can make logo (characters, letters, VIN code, serial numbers, date and graph) on work piece (metal or no-metal materials) permanently.

## *Working Principle*

Computer controls the pin to move in X-Y plane and mark the logo on the target location of work piece.

## *Permanent Marking*

It is suitable to mark on the surface of metals and some non-metal materials. Since the marking has a certain depth, it is hard to damage or drop, so the sign is permanently marked.



## *Wide Application Range*

Perfect Laser produces desk type, rotary type, portable type and multifunctional type pin marking machines. The machine is convenient to operate and maintain. It also can work normally even under bad circumstance with wide application range.

## *Advanced Technology*

With advanced technology, Perfect Laser's products are standardized produced and in good performance. It is widely applied in the fields of steel, petroleum, automobile, mechanism, electron, hardware and others.

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## Performance & Features

- 1) The component “marking needle” of our equipment is made up by precision mould and molding for once. Its’ excellent processing ability during work ensures the accuracy of high-speed marking & can make perfect marks on the work-pieces. While other’s marking needle is produced separately & assembled afterwards, that will weaken the marking accuracy.
- 2) The planar working platform of *PERFECT LASER*, applied by industrial material that made up by compact pressing and extending techniques, providing lots of virtues, such as: portably, good-looking, little-distortion, high quality-price rate, etc., recently it was widely used in mechanism structures in many developed countries. *PERFECT LASER* introduced it in the configuration of our own equipment & made them became harmony & nice looking.
- 3) The key component “marking needle”, moves on the imported “beeline-move tracking-guide”, can automatically lubricate & air-proof as well as dust-proof. Therefore, it guarantees the equipment with long-time stable performance & high accuracy. While other’s product only use “glide tracking-guide” or “beeline-move orbit-guide without dust-proof device”, thus, the marking needle is easy to wear-off after certain time using & makes the accuracy drops during marking.
- 4) *PERFECT LASER’s* pin marking machine adopts imported pin components, for example: the high-speed valve is made by American MAC Company. Its’ using time could reach 0.1-0.2 billion times.
- 5) The key component “marking needle” is made by imported hard alloy. By using particular machining techniques, the rigidity of the marking needle now can reach -- 92HRA. It can be marked on various kinds of labels & accessories as well as many high-rigidity materials such as bearings & gears. The usage life of the marking needle is twice time than other products.
- 6) The key component “positioning switch” of *PERFECT LASER’s* pin marking machine is made by Japan OMRON Company with high accuracy & steadily performance.
- 7) The system is operated by WINDOWS software. The interface is friendly & easy to use. With a particular “path pre-setting” function, the equipment will be more easy to use during processing of the work-pieces. The function “self-inspection for common malfunction” makes a convenient & quick maintenance for operators. The system also can work with other equipments such as: electrical-balance, bar-code machine etc., to share data-base together.
- 8) The main control-board of *PERFECT LASER’s* pin marking machine is introduced from the one in small-size computer. Even if computer disturbed by malfunctions, *PERFECT LASER’s* pin marking machine still can work uninterrupted in the processing of marking on the

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surface of work-piece. While many product's control-board are just connected with a block. Thus, when computer disturbed by malfunction, the marking process will be stopped immediately so that makes a waste of the under-marking work-pieces.

- 9) Through consistently effort by our engineer in recent years, **PERFECT LASER's** pin marking machine had made a great deal of improvements in its capability & reliability. The usage life of our pin marking machine now could exceed 10 years. The average MTTF could exceed 15000 hours. **PERFECT LASER** also holds with completely product inspection measures & advanced after-sales service system.
- 10) Perfect Laser, provided with modernization assembling production line, have passed the ISO9000 quality system authentication. Our key components are all invested from regular manufacturers, consequently, insures the superior quality of the whole equipment.
- 11) The "marking steel-sheath system", which own-exploited by **PERFECT LASER**, had solved the ubiquitous problem of big-noise that frequently occurred in pin marking machine during marking processing. What's more, with the advantages of little abrasion rate & only require about 0.2-0.4Mpa air pressure (other products will require 0.5-0.8Mpa air pressure), our equipment are economical & practical so as to avoid unnecessary wasting in energy & cost.
- 12) The appearances of **PERFECT LASER's** pin marking machine, designed by professional stylist, are compact & practical. Much effective improvement made in design such as dust-proof, damp-proof, shock-proof, insures long-time & steady performance of the equipment even when working in wicked environment.



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## How to choose your Pin Marker System / Model Classifying Principle (According to Different Functions)

According to the different functions, the pin marking machine can be classified into 4 types: planar type, rotary type, portable type and multi-functional type.

Clients can choose the most suitable pin marking machine model according to different functions.

● Models	PEQD-100/100E/200	PEQD-025/250/250E	PEQD-030/030E/300	PEQD-035/350	PEQD-400/450
● Types	Planar Marking Type	Rotary Marking	Portable Marking	Hanging Type	Multi-functional
● Applications	<p>Suitable for flat surface marking logos, characters, letters, serial numbers and VIN codes on various kinds of metals such as steel, stainless steel, iron, copper, aluminum, alloys, etc., and hard non-metal labels &amp; accessories.</p> <p>Widely used in the fields of automobile, motorcycle, mechanism, petroleum, aeronautical and space, electric apparatus and suitable for markings on steel, metal, nonmetal and hard plastic materials.</p>	<p>Adequate for both flat surface marking and rotary marking on various kinds of metals such as steel, stainless steel, iron, copper, aluminum, alloys, etc., and hard non-metal labels &amp; accessories.</p> <p>Due to the rotary marking function, these models are widely used for marking characters, letters, serial numbers and VIN codes on bodywork of motorcycles, connecting rods, engines, steel pipe, cylinder and cylinder various stepper motors and mechanical parts, etc.</p>	<p>Specially for marking on large-sized and unmovable metal items, and some hard nonmetallic work pieces, also can work with pipelining.</p> <p>Due to its small size and portable type, this model is widely used for marking characters, serials numbers and VIN codes on automobile or bodywork of car frames, automotive chassis, connecting rods, petrol pipe, crossbeam, mechanical parts, machine tools, metal pipes, pump bodies, fastening pieces, etc.</p>	<p>Specially for marking on large-sized and unmovable metal items, and some hard nonmetallic work pieces, also can work with pipelining.</p> <p>Normally it is mainly used on mass marking on petrol pipe and automobile crankshaft.</p>	<p>Integrated functions of both PEQD-200 &amp; PEQD-300 models, or PEQD-100 &amp; PEQD-030 models.</p> <p>The multifunctional types are typically for marking on automobile chassis, and automobile label &amp; nameplate marking.</p>

### Note:

1. Above classification is only for reference. Since some work pieces can be processed by more than one model. Also some materials have complex characters, it's not suitable for classify here.

2. Base on above reasons, it is preferred that you send us some sample materials or pictures, and we can choose suitable models for you through testing on your materials.

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# Perfect Laser Co., Ltd. (China)

## PEQD-100 (Planar-type) Pin Marking Machine

The PEQD-100 model is the basic and most widely used, with lowest cost and high technology, which integrate computer, automatic control and precise machinery. It is industrial marking equipment which can make logo (characters, letters, VIN code, serial numbers, date and graph) on work piece (metal or some no-metal materials) permanently.



### FEATURES

- Applying the most widely used up-down lifting structure to realize multi-functions.
- Controlled by computer, with the easy-to-operate WINDOWS system, Perfect Laser's professional marking software has wide application and can operate under WINDOWS 2000/XP.
- Powerful edit function. It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment, such as match with electronic scales, bar code machines, leak detectors and other equipment.

### SPECIFICATIONS

Standard Working Area .....150mm×100mm  
Optional Working Area ...200mm×100mm / 300mm×200mm / 400mm×300mm  
Marking Depth .....0.1~2mm  
Marking Speed ...≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range .....0-300 mm  
Marking Accuracy .....0.01 mm  
Pin Hardness .....HRC 73  
Air Pressure .....0.2-0.4 Mpa  
Machine Power .....≤400W  
Power Supply .....220V; 50Hz  
Working Environment .....-5~45 °C



**Machine Weight** .....60 Kgs

**Dimensions** .....0.3 m<sup>3</sup>

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# Perfect Laser Co., Ltd. (China)

## PEQD-100E (LCD-Control+ Planar Type) Pin Marking Machine

The PEQD-100 model is the basic and most widely used, with lowest cost and high technology, which integrate computer, automatic control and precise machinery. It is industrial marking equipment which can make logo (characters, letters, VIN code, serial numbers, date and graph) on work piece (metal or some no-metal materials) permanently.



### FEATURES

- This machine takes complete LCD control system, integrates PC, display, and control system into one unit, no need to connect computer, with smaller size which can save space, easier to operate and high efficiency.
- The processed letters, words, or graphics can be saved in a U disk, then input to the machine, and the machine can work offline without computer, more convenient to operate and working efficiency much enhanced.
- Applying the most widely used up-down lifting structure to realize multi-functions.
- The software is with powerful edit function, can layout any kind of characters and graphics, and is compatible with AutoCAD software.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically, support logos and graphs designed in DXF format from AutoCAD, CorelDraw, etc.
- It can be used online to share the database and data transmission with other equipment, such as match with electronic scales, bar code machines, leak detectors and other equipment.
- Easy to maintenance, widely adaptability, can work in any environment, widely used in many fields.

### SPECIFICATIONS

Standard Working Area ······150mm×100mm  
Optional Working Area ····200mm×100mm / 300mm×200mm / 400mm×300mm  
Marking Depth ······0.1~2mm  
Marking Speed ····≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz  
Working Environment ······-5~45 °C



**Machine Weight** ····60 Kgs

**Dimensions** ······0.3 m<sup>3</sup>

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# Perfect Laser Co., Ltd. (China)

## PEQD-200 (Planar + Cabinet Type) Pin Marking Machine

The PEQD-200 pin marking machine integrates computer, automatic control and precise machinery. It is industrial marking equipment which can make logo (characters, letters, VIN code, serial numbers, date and graphics) on metal or no-metal work pieces permanently.



### FEATURES

- It looks luxury and beautiful with fully block-out electrical controlling cabinet, which benefits for damp-proof, dust-proof, shake-proof, and has a strong ability to adapt to any wicked working environment.
- Applying the most widely used up-down lifting structure to realize multi-functions.
- Controlled by computer, with the easy-to-operate WINDOWS system, Perfect Laser's professional marking software has wide application and can operate under WINDOWS 2000/XP.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment.

### SPECIFICATIONS

Standard Working Area ······150mm×100mm  
Optional Working Area ····200mm×100mm / 300mm×200mm / 400mm×300mm  
Marking Depth ······0.1~2mm  
Marking Speed ····≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz



**Machine Weight** ····65 Kgs

# Perfect Laser Co., Ltd. (China)

## PEQD-025 (Rotary-type) Pin Marking Machine

With a rotary fixture, the PEQD-025 model is adequate for both flat surface marking and circumference marking on cylindrical, conical, spherical workpieces. It is widely used and with lowest cost, integrates computer, automatic control and precise machinery. It is industrial marking equipment which can make logo (characters, letters, VIN code, serial numbers, date and graph) on work piece (metal or some no-metal materials) permanently.

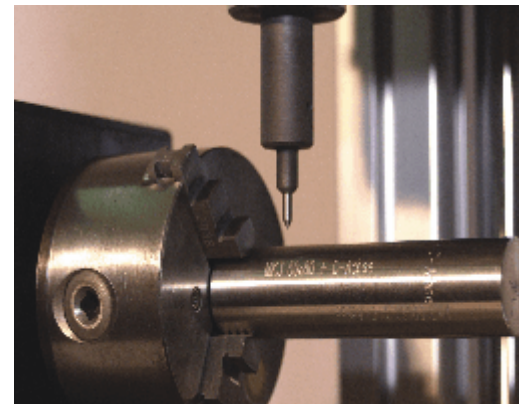
### FEATURES



- Applying the most widely used up-down lifting structure to realize multi-functions.
- Controlled by computer, with the easy-to-operate WINDOWS system, Perfect Laser's professional marking software has wide application and can operate under WINDOWS 2000/XP.
- Powerful edit function. It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment, such as match with electronic scales, bar code machines, leak detectors and other equipment.

### SPECIFICATIONS

Standard Working Area .....150mm×100mm  
Optional Working Area ...200mm×100mm / 300mm×200mm / 400mm×300mm  
Marking Depth .....0.1~2mm  
Marking Speed ...≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range .....0-300 mm  
Marking Accuracy .....0.01 mm  
Pin Hardness .....HRC 73  
Air Pressure .....0.2-0.4 Mpa  
Machine Power .....≤400W  
Power Supply .....220V; 50Hz  
Working Environment .....-5~45 °C



**Machine Weight** .....65 Kgs

**Dimensions** .....0.3 m<sup>3</sup>

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# Perfect Laser Co., Ltd. (China)

## PEQD-250 (Rotary + Cabinet Type) Pin Marking Machine

With a rotary fixture, the PEQD-250 model is adequate for both flat surface marking and circumference marking on cylindrical, conical, spherical workpieces. It is widely used and with lowest cost, integrates computer, automatic control and precise machinery. It is industrial marking equipment which can make logo (characters, letters, VIN code, serial numbers, date and graph) on work piece (metal or some no-metal materials) permanently.

### FEATURES

- By adding a rotary control system on the basis of model PEQD-200, it enables flat surface marking as well as rotary marking
- Applying the most widely used up-down lifting structure to realize multi-functions.
- Controlled by computer, with the easy-to-operate WINDOWS system, Perfect Laser's professional marking software has wide application and can operate under WINDOWS 2000/XP.
- Powerful edit function. It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment, such as match with electronic scales, bar code machines, leak detectors and other equipment.



### SPECIFICATIONS

Standard Working Area ······150mm×100mm  
Optional Working Area ····200mm×100mm / 300mm×200mm / 400mm×300mm  
Marking Depth ······0.1~2 mm  
Marking Speed ····≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz  
Working Environment ······-5~45 °C



**Machine Weight** ······65 Kgs  
**Dimensions** ······0.3 m<sup>3</sup>



# Perfect Laser Co., Ltd. (China)

## PEQD-250E (Rotary + Horizontal Type) Pin Marking Machine

With a rotary fixture, the PEQD-250 model is adequate for both flat surface marking and circumference marking on cylindrical, conical, spherical workpieces. It is widely used and with lowest cost, integrates computer, automatic control and precise machinery. It is industrial marking equipment which can make logo (characters, letters, VIN code, serial numbers, date and graph) on work piece (metal or some no-metal materials) permanently.

### FEATURES

- By adding a rotary control system on the basis of model PEQD-200, it enables flat surface marking as well as rotary marking
- Applying the most widely used up-down lifting structure to realize multi-functions.
- Controlled by computer, with the easy-to-operate WINDOWS system, Perfect Laser's professional marking software has wide application and can operate under WINDOWS 2000/XP.
- Powerful edit function. It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.



- It can be used online to share the database and data transmission with other equipment, such as match with electronic scales, bar code machines, leak detectors and other equipment.

### SPECIFICATIONS

Standard Working Area ······150mm×100mm  
Optional Working Area ····200mm×100mm / 300mm×200mm / 400mm×300mm  
Marking Depth ······0.1~2mm  
Marking Speed ····≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz  
Working Environment ······-5~45 °C



**Machine Weight** ······65 Kgs

**Dimensions** ······0.3 m<sup>3</sup>

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## PEQD-030 (Portable-type) Pin Marking Machine

The PEQD-030 is portable type which is special for marking on large-sized and unmovable metal items and some hard nonmetallic work pieces. It can also work with pipelining. Due to its small size and portable type, this model is widely used for marking characters, serials numbers and VIN codes on automobile or bodywork of car frames, automotive chassis, connecting rods, petrol pipe, crossbeam, mechanical parts, machine tools, metal pipes, pump bodies, fastening pieces and various hard plastic products.

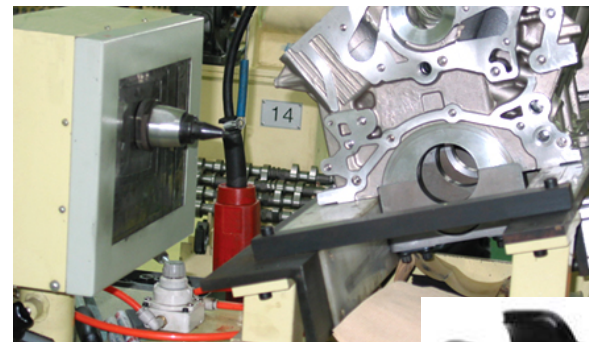


### FEATURES

- The marking head weighing only 2 kgs, is portable with a small size & easy to move.
- Applying the most widely used up-down lifting structure to realize multi-functions.
- Controlled by computer, Perfect Laser's professional marking software has a wide application, and can operate under WINDOWS XP system.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment.

### SPECIFICATIONS

Standard Working Area .....125mm×16mm  
Optional Working Area .....135mm×16mm/150mm×100mm  
Marking Depth .....0.1~2mm  
Marking Speed .....≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range .....0-300 mm  
Marking Accuracy .....0.01 mm  
Pin Hardness .....HRC 73  
Air Pressure .....0.2-0.4 Mpa  
Machine Power .....≤400W  
Power Supply .....220V; 50Hz  
Working Environment .....-5~45 °C



**Machine Weight** ···65 Kgs

**Dimensions** ····0.3 m<sup>3</sup>



# Perfect Laser Co., Ltd. (China)

## PEQD-030E (LCD-Control+ Portable Type) Pin Marking Machine

The PEQD-030 is portable type which is special for marking on large-sized and unmovable metal items and some hard nonmetallic work pieces. It can also work with pipelining. Due to its small size and portable type, this model is widely used for marking characters, serials numbers and VIN codes on automobile or bodywork of car frames, automotive chassis, connecting rods, petrol pipe, crossbeam, mechanical parts, machine tools, metal pipes, pump bodies, fastening pieces and various hard plastic products.



### FEATURES

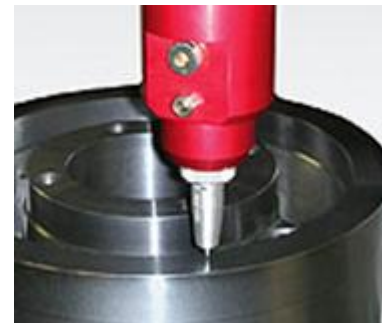
- This machine takes complete LCD control system, integrates PC, display, and control system into one unit, no need to connect computer, with smaller size which can save space, easier to operate and high efficiency.
- This model is portable type, special for marking on those work pieces with big size and un-moveable.
- The software is with powerful edit function, can layout any kind of characters and graphics, and is compatible with AutoCAD software.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically, support logos and graphs designed in DXF format from AutoCAD, CorelDraw, and multi-kinds font

such as MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.

- It can be used online to share the database and data transmission with other equipment, such as match with electronic scales, bar code machines, leak detectors and other equipment.
- The portable marking head is Perfect Laser's original design, only with 2 Kg, portable and smart, easy to carry.

### SPECIFICATIONS

Standard Working Area ······125mm×16mm  
Optional Working Area ······135mm×16mm/150mm×100mm  
Marking Depth ······0.1~2mm  
Marking Speed ····≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz  
Working Environment ······-5~45 °C

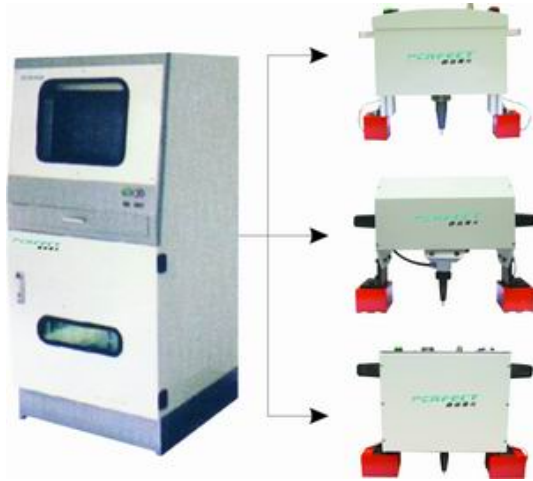


**Machine Weight** ······65 Kgs  
**Dimensions** ······0.3 m<sup>3</sup>

# Perfect Laser Co., Ltd. (China)

## PEQD-300 (Portable + Cabinet Type) Pin Marking Machine

The PEQD-300 is portable type which is special for marking on large-sized and unmovable metal items and some hard nonmetallic work pieces. It can also work with pipelining. Due to its small size and portable type, this model is widely used for marking characters, serials numbers and VIN codes on automobile or bodywork of car frames, automotive chassis, connecting rods, petrol pipe, crossbeam, mechanical parts, machine tools, metal pipes, pump bodies, fastening pieces and various hard plastic products.

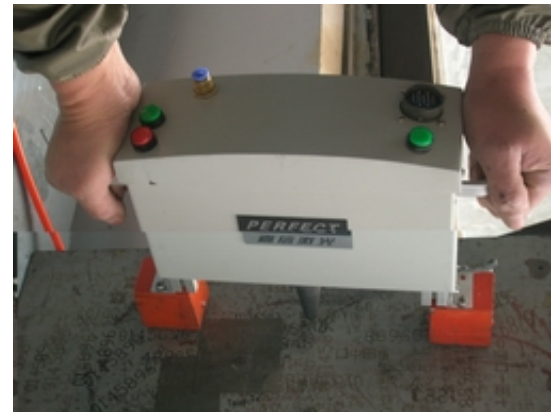


### FEATURES

- The marking head weighing only 2 kgs, is portable with a small size & easy to move.
- Applying the most widely used up-down lifting structure to realize multi-functions.
- Controlled by computer, Perfect Laser's professional marking software has a wide application, and can operate under WINDOWS XP system.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment.

### SPECIFICATIONS

Standard Working Area .....125mm×16mm  
Optional Working Area .....135mm×16mm/150mm×100mm  
Marking Depth .....0.1~2mm  
Marking Speed .....≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range .....0-300 mm  
Marking Accuracy .....0.01 mm  
Pin Hardness .....HRC 73  
Air Pressure .....0.2-0.4 Mpa  
Machine Power .....≤400W  
Power Supply .....220V; 50Hz  
Working Environment .....-5~45 °C



**Machine Weight** .....65 Kgs

**Dimensions** .....0.3 m<sup>3</sup>

Website: [www.perfectlaser.net](http://www.perfectlaser.net) Tel:+ (86-27)-8679 1986 / 8677 5865 Fax:+ (86-27)-8678 3982

Address: Phoenix Science & Technology Park, No.154, Zhongbei Road, Wuhan, P.R.China

# Perfect Laser Co., Ltd. (China)

## PEQD-035 (Rocker Hanging Type) Pin Marking Machine

Due to its hanging type, this model is widely used for marking characters, serials numbers and VIN codes on automobile or bodywork of car frames, automotive chassis, connecting rods, petrol pipe, crossbeam, mechanical parts, machine tools, metal pipes, pump bodies, fastening pieces and various hard plastic products. Normally it is mainly used on mass marking on petrol pipe and automobile crankshaft.



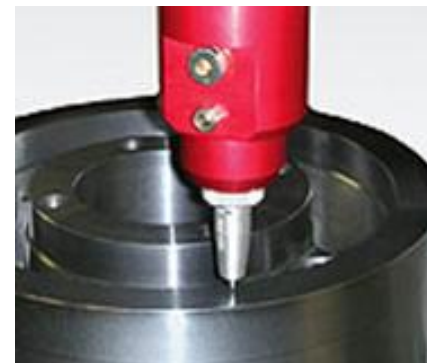
### FEATURES

- The marking head is hanging on the rock-arm of the unit through a balance device. It can move into any target location of the work pieces under CNC controlling
- Controlled by computer, Perfect Laser's professional marking software has a wide application, and can operate under WINDOWS XP system.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.

- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment.

### SPECIFICATIONS

Standard Working Area ······130mm×80mm  
Optional Working Area ······150mm×100mm / 200mm×100mm  
Marking Depth ······0.1~2mm  
Marking Speed ····≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz  
Working Environment ······-5~45 °C



**Machine Weight** ······65 Kgs

**Dimensions** ······0.3 m<sup>3</sup>

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# Perfect Laser Co., Ltd. (China)

## PEQD-350 (Rocker Hanging + Cabinet Type) Pin Marking Machine

Due to its hanging type, this model is widely used for marking characters, serials numbers and VIN codes on automobile or bodywork of car frames, automotive chassis, connecting rods, petrol pipe, crossbeam, mechanical parts, machine tools, metal pipes, pump bodies, fastening pieces and various hard plastic products. Normally it is mainly used on mass marking on petrol pipe and automobile crankshaft.

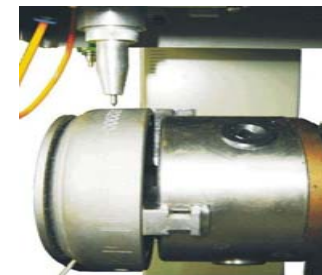
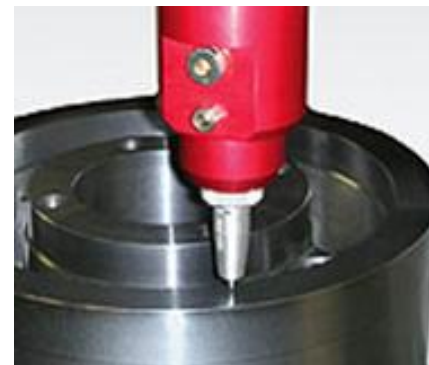


### FEATURES

- It looks luxury and beautiful with fully block-out electrical control cabinet, which benefits for damp-proof, dust-proof, shake-proof, and has a strong ability to adapt to any wicked working environment.
- Marking head is hanging on the rock-arm of the unit through a balance device. It can move into any target location of the work pieces under CNC controlling.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment.

### SPECIFICATIONS

Standard Working Area ······130mm×80mm  
Optional Working Area ······150mm×100mm / 200mm×100mm  
Marking Depth ······0.1~2mm  
Marking Speed ···≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz  
Working Environment ······-5~45 °C



**Machine Weight** ······65 Kgs

**Dimensions** ······0.3 m<sup>3</sup>

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# Perfect Laser Co., Ltd. (China)

## PEQD-400 (Multi-functional) Pin Marking Machine

PEQD-400 is portable type which is special for marking on large-sized and unmovable metal items and some hard nonmetallic work pieces, and can also work with pipelining. Due to combination of the model PEQD-200 and 300, this model is widely used for marking characters, serials numbers and VIN codes on automobile or bodywork of car frames, automotive chassis, connecting rods, petrol pipe, crossbeam, mechanical parts, machine tools, metal pipes, pump bodies, fastening pieces and various hard plastic products.



### FEATURES

- It looks luxury and beautiful with fully block-out electrical control cabinet, which benefits for damp-proof, dust-proof, shake-proof, and has a strong ability to adapt to any wicked working environment.
- The marking head is hanging on the rock-arm of the unit through a balance device. It can move into any target location of the work pieces under CNC controlling.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.
- It can be used online to share the database and data transmission with other equipment.

### SPECIFICATIONS

Planar Marking Area ······150×100/200×100/300×200/400×300mm  
Moving Marking Area ······130×80/150×100/200×100mm  
Marking Depth ······0.1~2mm  
Marking Speed ···≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz  
Working Environment ······-5~45 °C



**Machine Weight** ······65 Kgs

**Dimensions** ······0.3 m<sup>3</sup>

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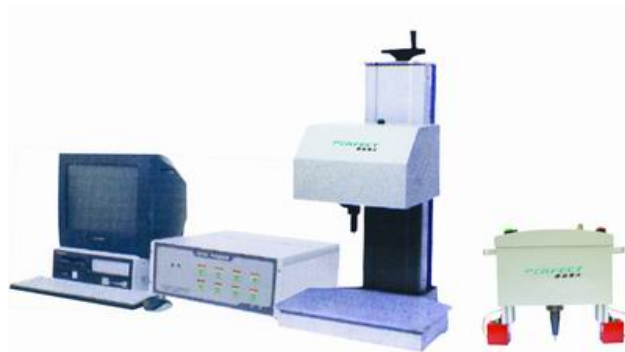
# Perfect Laser Co., Ltd. (China)

## PEQD-450 (Multi-functional) Pin Marking Machine

PEQD-400 is portable type which is special for marking on large-sized and unmovable metal items and some hard nonmetallic work pieces, and can also work with pipelining. Due to combination of the model PEQD-100 and 030, this model is widely used for marking characters, serials numbers and VIN codes on automobile or bodywork of car frames, automotive chassis, connecting rods, petrol pipe, crossbeam, mechanical parts, machine tools, metal pipes, pump bodies, fastening pieces and various hard plastic products.

### FEATURES

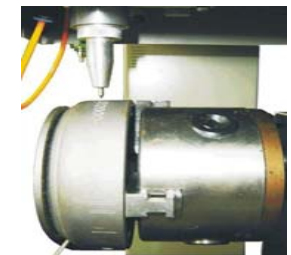
- It looks luxury and beautiful with fully block-out electrical control cabinet, which benefits for damp-proof, dust-proof, shake-proof, and has a strong ability to adapt to any wicked working environment.
- The marking head is hanging on the rock-arm of the unit through a balance device. It can move into any target location of the work pieces under CNC controlling.
- It can mark any logo (character, letter and graph, data code, series number, VIN code, engine numbers) automatically.
- It can support logos and graphs designed in DXF format from AutoCAD, CorelDraw.
- It can support multi-kinds font: MG Font, SHX Font in Auto CAD, CHR in Borland, and TTF in Windows.
- Marking contents could be saved automatically and not be destroyed during power-off of the machine.



- It can be used online to share the database and data transmission with other equipment.

### SPECIFICATIONS

Planar Marking Area ······150×100/200×100/300×200/400×300mm  
Moving Marking Area ······130×80/150×100/200×100mm  
Marking Depth ······0.1~2mm  
Marking Speed ···≤50mm/s (for 3mm height character or 3-4 numbers /second)  
Lifting Range ······0-300 mm  
Marking Accuracy ······0.01 mm  
Pin Hardness ······HRC 73  
Air Pressure ······0.2-0.4 Mpa  
Machine Power ······≤400W  
Power Supply ······220V; 50Hz  
Working Environment ······-5~45 °C



**Machine Weight** ······65 Kgs  
**Dimensions** ······0.3 m<sup>3</sup>



# Perfect Laser Co., Ltd. (China)

## Main System & Components List for PEQD Series Pin Marking Machines

Description		Specification	Qty
Controlling System	(Completely block-out) Control cabinet	483mm×450mm×177mm	1
	Drivers	MA335B	2
	Controlling board of drivers	Imported Electron module	1
	Conversion board	Imported components	1
	Power	Perfect Laser	1
Computer System	Computer	C2.8G、256M、80G、17'colorful screen	1
	Marking Software	Marking software with WINDOWS Interface (Support DXF format from AutoCAD, CorelDraw)	1
Marking System	Planar Working Platform	(Korea)	1
	High-speed electromagnetism valve	BC24 (USA)	1
	Motor	BGY57、BGY59	2
	Position switch	CS-G110 (Japan)	2
	Marking Needle & steel-sheath	φ3/φ5 (Sweden)	1
	Driving cable	36 cores	1
	Z-axes up-down lifting columniation	Perfect Laser	1
Working table		1	
Fixture	<b>Optional parts, charged additionally</b>	Revolving controls the fixture	1
Spare parts (Free of Charge)		2 sets of marking needle 2 position switch 2 airproof ring 2 spring	

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# Perfect Laser Co., Ltd. (China)

## Quality Guarantee Services & After-sales Services

- 1) The guarantee period of quality shall be 12 months counting from the date on which the commodity arrives at the port of destination. Except the damage artificially, we are responsible for offering the fittings free of charge during the guarantee period. While user is kindly requested to send the Damaged fittings to us by courier with your charge before we send back the alternative fitting parts. After the guarantee of quality period, the parts required repairing or change, if any, shall be reasonable charged.
- 2) We will give technical guide by email, fax and telephone when user meets problems on installation, operation, adjusting, maintaining.
- 3) We offer technical supporting to ensure safety using & maintenance for user:
  - Operation manual for installation, adjusting, operation, maintaining;
  - Professional marking software;
  - Operational marking software backup;
  - Quick supplement of key components with reasonable price.
  - Life-long after-sales service & consulting service to user.

## Training to use

- 1) We will supply with the machine operation manual in English version for:
  - Installation and operation, including introduction for the composing of equipment, working principle of equipment, common knowledge of computer, controlling principle of electronic devices, daily maintenance measures of equipment.
  - Personal demonstration for installation and adjusting of equipment, operation of equipment, programming of computer;
  - common malfunction eliminating measures, etc.,
- 2) User can dispatch representatives to our factory for 2~3 days' training. We are responsible for training them free of charge. While all the charges including traveling charge and accommodation will be born by the user.

## Contact Us



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