



智识机械
ZS MACHINERY

PRODUCT BROCHURE

Your One-Stop Marking Solution Provider



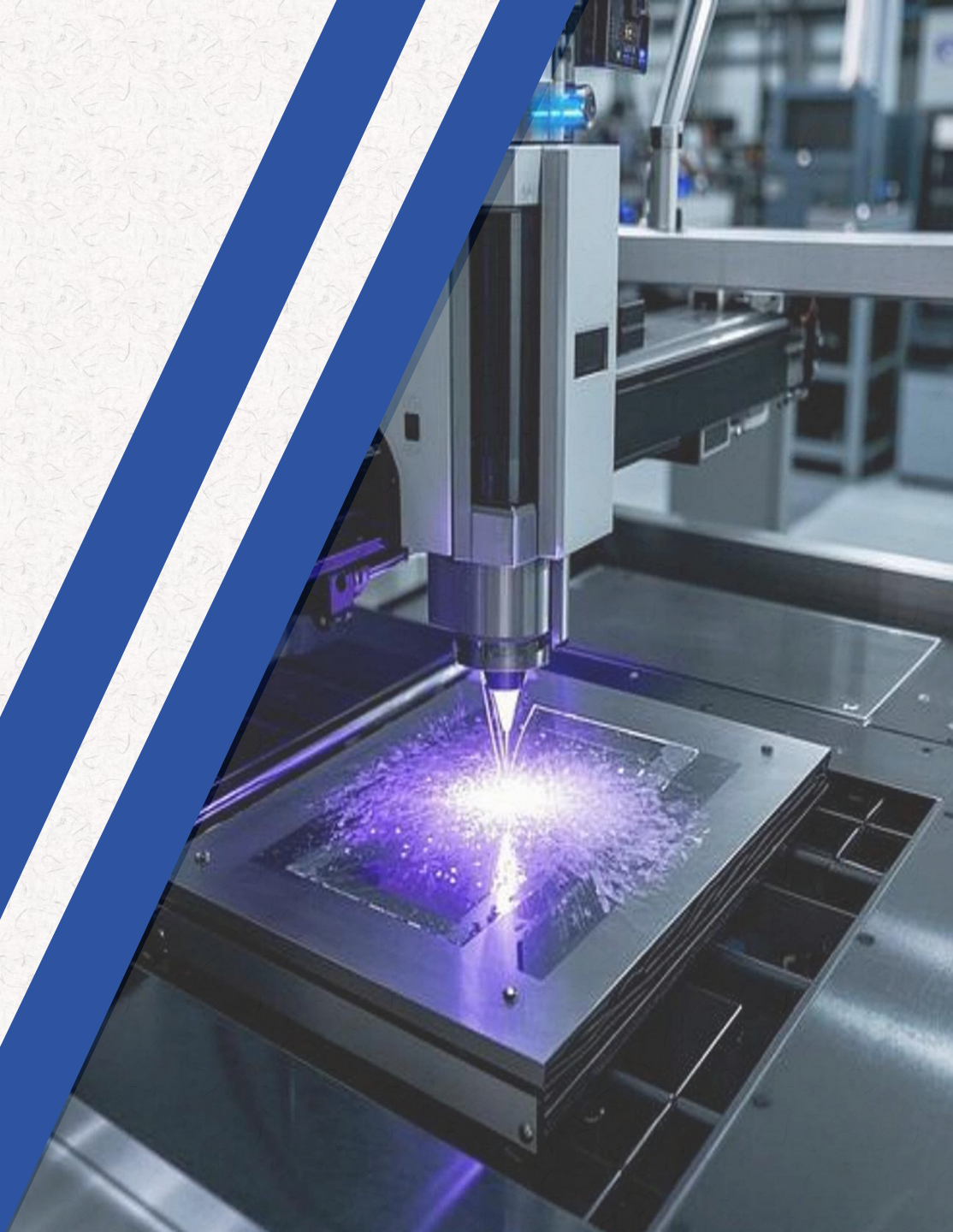
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Cangzhou Zhishi Machinery Equipment Co., Ltd., (ZS Machinery) is a professional provider of industrial surface marking solutions. The name “Zhishi” represents our vision of intelligent identification and smart automation — using advanced technologies to make industrial processes more efficient, precise, and reliable.

We focus on delivering one-stop marking solutions for a wide range of materials and applications, combining different technologies to meet diverse production needs.

At ZS Machinery, we do more than just supply machines — we focus on solving real marking challenges.

Different materials require different marking technologies. Choosing the wrong method can lead to poor quality, low efficiency, or unnecessary costs.

Our solutions include:

Fiber laser marking systems

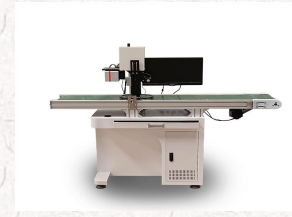
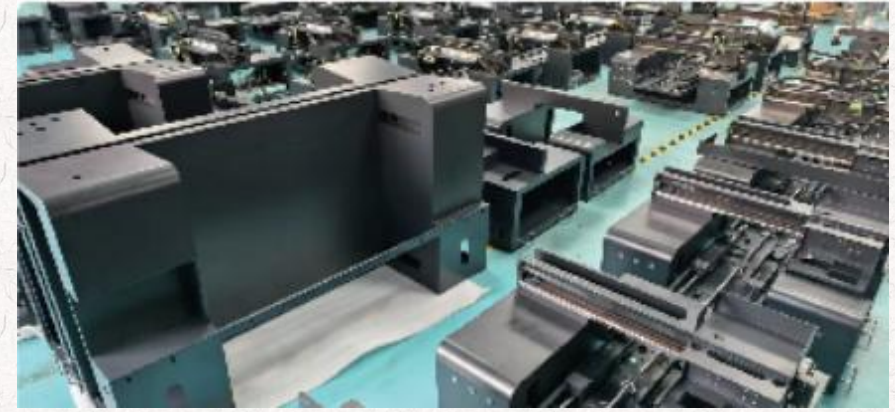
CO₂ laser marking systems

UV laser marking systems

Dot peen marking machines

UV printing solutions

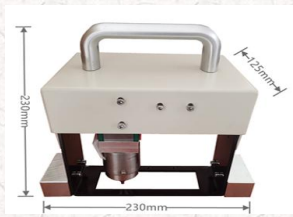
We look forward cooperating with you!



COOPERATION



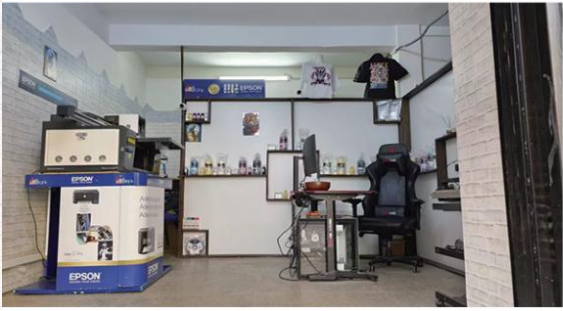
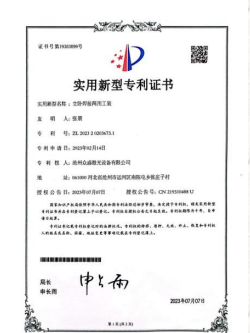
WIN-WIN



SPECIALIZED



SUPPLY CHAIN CAPABILITY



NOTE: All products support customization, including appearance, size, specialized fixtures, and automation design.

Laser Marking Solution

Dot Peen Marking Solution

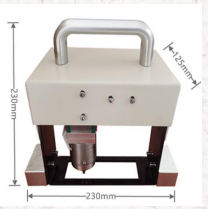
UV Printing Solution



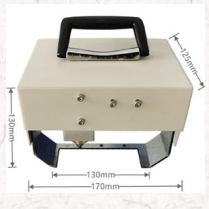
Fiber Laser

CO2 Laser

UV Laser



Electric version



Pneumatic version



Flatbed type



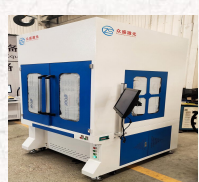
Visual type



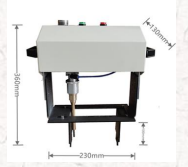
Visual laser marking



Flying laser marking



Closed Laser Marking



Extended needle



Industrial version



DTF Type



Cylindrical Type

How does laser marking work?

Laser marking uses a focused laser beam to interact with the surface of a material. The high-energy laser locally heats the material, causing oxidation, discoloration, engraving, or micro-etching on the surface. This process creates permanent, high-precision marks such as text, logos, barcodes, or serial numbers without physical contact or consumables.

Key Features

Permanent Marking – Creates durable marks that are resistant to wear, heat, and corrosion.

High Precision – Produces clear and detailed markings such as logos, QR codes, and serial numbers.

High Speed & Efficiency – Fast marking process suitable for mass production.

Non-Contact Processing – No mechanical stress on the workpiece, ensuring no deformation or damage.

Low Operating Cost – No consumables required and minimal maintenance needed.

Wide Material Compatibility – Suitable for metals, plastics, ceramics, glass, and more.

Different types of laser marking

Laser Marking Type	Laser Source	Suitable Materials	Typical Applications
Fiber Laser Marking	Fiber Laser	Metals, coated metals, some plastics	Metal parts, tools, electronics, automotive components
CO ₂ Laser Marking	CO ₂ Laser	Non-metal materials (wood, leather, paper, acrylic, glass, plastics)	Packaging, wood products, leather goods, plastics
UV Laser Marking	UV Laser	Plastics, glass, ceramics, silicon, delicate materials	Electronics, medical devices, precision components

Marking Samples



LASER MARKING SOLUTION

Fiber Laser Marking Machines General parameters

Marking Area: 100 × 100 mm to 300 × 300 mm (customizable)
Laser Power: 20W / 30W / 50W / 100W (customizable)
Marking Depth: Up to 5 mm (depending on material)
Control Software: EZCAD, easy to operate and stable
Cooling System: Air Cooled
Power Supply: 220V / 50Hz
Warranty: 2 years



Cabinet-type fiber laser marking machine

ADVANTAGES

More stable and more industrialized



Flying fiber laser marking machine

ADVANTAGES

Online Marking Capability
High Efficiency
Automation Integration



Visual fiber laser marking machine

ADVANTAGES

Visual recognition of marking position

LASER MARKING SOLUTION

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Handheld dual-use fiber laser marking machine

ADVANTAGES

Extension arm expand working range and suitable for marking large workpieces



Desk-type fiber laser marking machine

ADVANTAGES

Small in size, lightweight, and easy to move



Handheld portable fiber laser marking machine

Visual-type advantages

Small in size, lightweight, and easy to carry

LASER MARKING SOLUTION



Cabinet-type CO2 laser marking machine

Product features

High precision CO2 laser marking

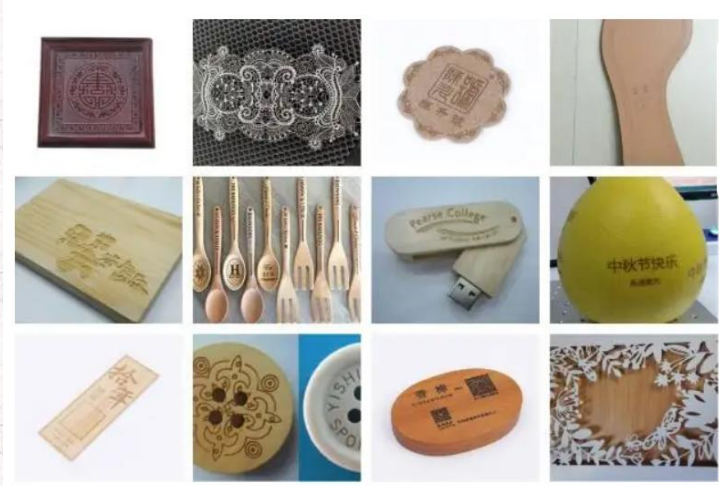
Suitable for marking non-metallic materials such as fabric, leather, wood, and paper.

Fast marking speed and high efficiency

Multiple models available, **handheld dual-use, desktop and other type**

Laser Source	CO2 Laser
Marking area	100mmx100mm/300mmx300mm(Customizable)
Power	20W/30W/40W/60W(Customizable)
Body size	800mm*600mm*800mm (Customizable)
Marking Depth	5mm(Determined based on specific materials)
Control Software	EZCAD
Cooling System	Air Cooled
Electricity demand	220V/50HZ
Operating Temperature	0-40°C
Warranty	1 year

Marking samples



LASER MARKING SOLUTION



Cabinet-type UV laser marking machine

Product features

Minimal heat-affected zone

Suitable for marking plastic products, glass and other non-metallic materials, as well as heat-sensitive precision parts.

Multiple models available, **handheld dual use, desktop and other type**

Stable performance for continuous production

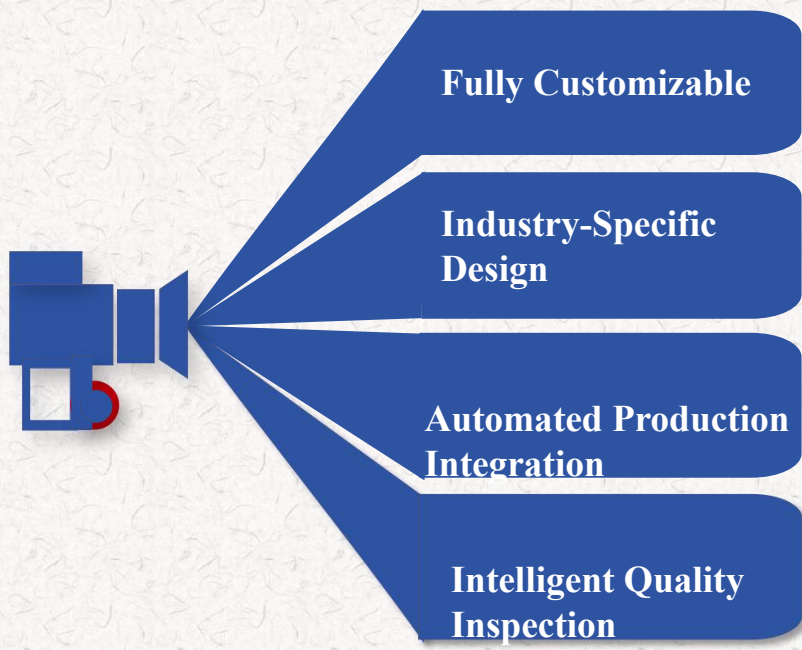
Laser Source	UV Laser
Marking area	100mmx100mm/300mmx300mm(Customizable)
Power	5W/10W(Customizable)
Body size	800mm*600mm*800mm (Customizable)
Marking Depth	1mm(Determined based on specific materials)
Control Software	EZCAD
Cooling System	Water Cooling
Electricity demand	220V/50HZ
Operating Temperature	0-40°C
Warranty	1 year

Marking samples



LASER MARKING SOLUTION

Fully customized laser marking solutions



Machine structure, marking area, power configuration, fixtures, and automation modules can all be customized according to customer production requirements.

Specially designed solutions for industries such as automotive, including flexible label marking machines and dedicated nameplate marking systems.

Specially designed solutions for industries such as automotive, including flexible label marking machines and dedicated nameplate marking systems.

Equipped with smart detection systems to automatically inspect marked products, preventing missing marks or repeated markings and ensuring consistent product quality.

ABOUT DOT PEEN MARKING

How does dot peen marking work?

Dot peen marking uses a carbide pin to strike the surface of a material, creating a series of dots that form text, numbers, or codes.

This mechanical marking process produces deep, permanent marks that are highly resistant to wear, making it ideal for industrial identification.

Key Features

Deep Marking – Creates permanent marks that remain visible even after painting, coating, or harsh treatment

High Durability – Resistant to wear, corrosion, and extreme environments

No Consumables – No ink or laser source required, reducing operating cost

Reliable & Stable – Suitable for heavy-duty industrial applications

Wide Metal Compatibility – Ideal for steel, aluminum, and other hard materials

Compared with laser marking, dot peen marking is more cost-effective and suitable for applications requiring deeper and more durable marks on metal surfaces.

Different types of dot peen marking

Type	Method	Features	Typical Applications
Electric Dot Peen	Electric motor (no air required)	Compact, easy to use, no need for air compressor	Small workshops, flexible marking
Pneumatic Dot Peen	Compressed air	Strong impact force, deeper marking capability	Metal parts, heavy-duty marking
Industrial Integrated Type	Integrated with production line	High automation, supports continuous marking	Automotive, mass production lines

Marking Samples



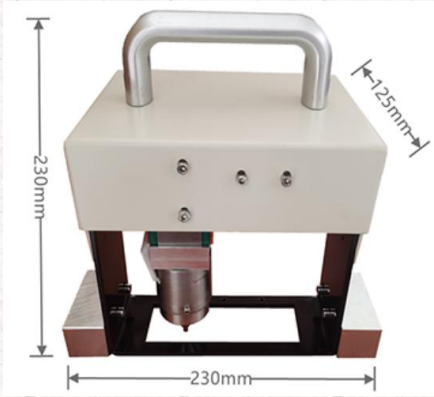
DOT PEEN MARKING SOLUTION

Electric dot peen marking machine

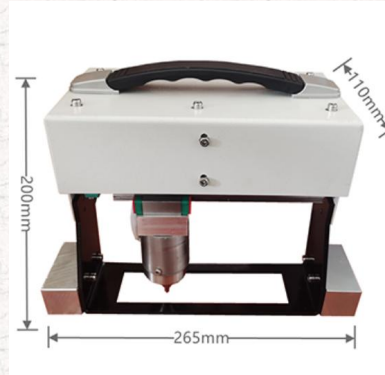
Knob control

No air pump required

One-button pressure adjustment



Model: ZS 9525
Dimension: 230x125x230mm
Marking area: 95x25mm
Driving method: Electric
Applications: Steel plates, molds, various metal parts



Model: ZS 12530
Dimension: 265x110x200mm
Marking area: 125x30mm
Driving method: Electric
Applications: Steel plates, molds, various metal parts



Small size



Easy carry



Large area



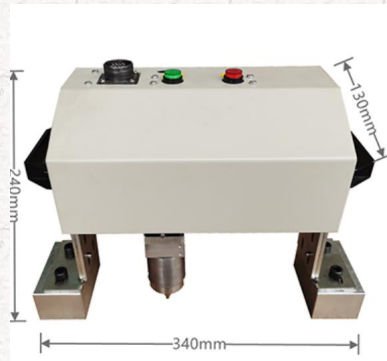
Stable use



Low power



copper motor

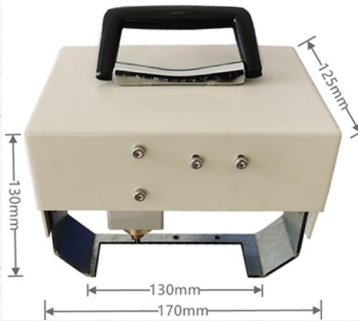


Model: ZS 14040
Dimension: 340x130x240mm
Marking area: 140x40mm
Driving method: Electric
Applications: Steel plates, molds, various metal parts



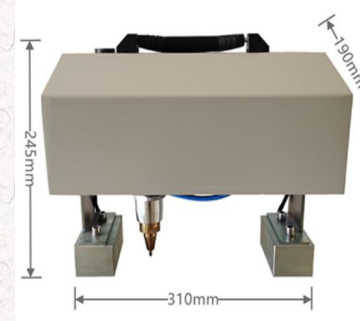
Model: ZS 14040 all in one
Dimension: 340x130x265mm
Marking area: 125x30mm
Driving method: Electric
Applications: Steel plates, molds, various metal parts

DOT PEEN MARKING SOLUTION



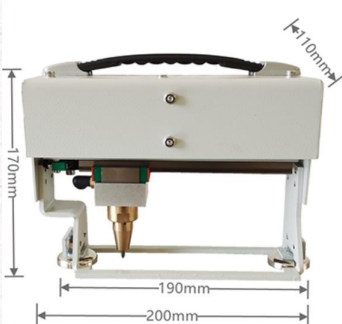
9025 Pneumatic Marking Machine

Dimension: 170x125x130mm
Marking area: 90x25mm
Driving method: Pneumatic
Applications: Steel plates, molds, various metal parts



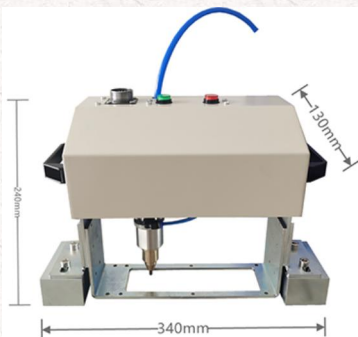
16090 Pneumatic Marking Machine

Dimension: 310x190x245mm
Marking area: 160x90mm
Driving method: Pneumatic
Applications: Steel plates, molds, nameplate, various metal parts



12525 Pneumatic Marking Machine

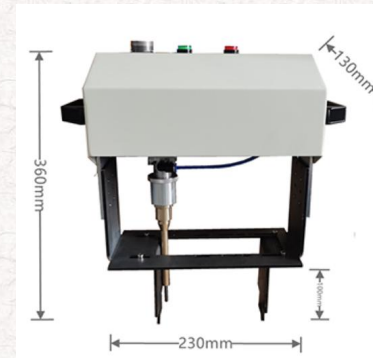
Dimension: 200x110x170mm
Marking area: 125x30mm
Driving method: Pneumatic
Applications: Steel plates, molds, various metal parts



14040 Pneumatic Marking Machine

Dimension: 340x130x240mm
Marking area: 140x40mm
Driving method: Pneumatic
Applications: Steel plates, molds, various metal parts

Y-axis dual guide rail design ensures stable marking.

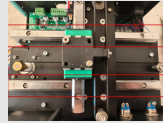


Extended needle pneumatic marking machine

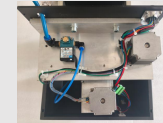
Dimension: 239x130x360mm
Marking area: 140x40mm
Driving method: Pneumatic
Applications: Marking in small areas such as motorcycle frames

DOT PEEN MARKING SOLUTION

Industrial-grade dot peen Marking Machine



The horizontal dual-track design makes marking more stable



Made with high-quality materials, weighing 22kg



The scale display makes it easy to adjust the position



Rotary marking fixtures can be customized



270x200x150mm, with 88 built-in keys and compatible with mouse



X6 control box, 270x135x155mm, USB interface.

Note: All dot peen marking machines can choose between two operating systems. Industrial models also offer both electric and pneumatic drive options.

Rotary tooling

Control system option1

Control system option2

How does UV printing work?

UV printing uses piezoelectric printheads to jet ink directly onto the surface of a material. During printing, ultraviolet (UV) lamps instantly cure the ink, turning it from liquid into solid within seconds. This process ensures that the ink does not spread, resulting in sharp images, vibrant colors, and strong adhesion. Unlike traditional marking methods, UV printing does not rely on engraving or impact, but instead creates high-quality surface decoration with excellent visual performance.

Key Features

High-Resolution Printing

Produces detailed images, logos, and QR codes with excellent clarity

Full-Color Capability

Supports CMYK and white ink printing for rich and vivid color effects

Wide Material Compatibility

Suitable for acrylic, glass, metal, plastic, wood, leather, and more

Instant UV Curing

Ink dries immediately, improving efficiency and reducing production time

Non-Contact Process

No pressure on the product surface, ideal for fragile or delicate items

Flexible Applications

Supports flat, cylindrical, and irregular surface printing

Different from laser and dot peen

Type	Method	Visual Effect	Typical Applications
UV Printing	Inkjet + UV curing	Excellent, colorful	Packaging, branding
Dot Peen Marking	Mechanical pin impact	Industrial, rough	Heavy industry, metal parts
Laser Marking	Laser beam engraving/oxidation	High precision, monochrome	Industrial parts, electronics

Printing Samples



UV PRINTING SOLUTION



A3 UV Printer

ZS-5060 UV Printer

Model	A3 UV Printer	ZS-5060 UV Printer
Print size	30x40CM	50x60CM
Printhead configuration	2 high precision Epson head	
Print speed	Three adjustable speeds: high, medium, and low	
Print height	20CM	20CM
Drop height	5mm	5mm
Ink supply system	Complete industrial negative pressure ink supply system	
Power requirements	AC220/10+1050~60HZP00W	
Printing software	Maintop/Ruicolor pro/Ruipress	
Print format	JPG/PDF/AI/CDR/TIF/EPS/CAD	
Ink type	UV ink/Textile ink/Water-based ink	

UV PRINTING SOLUTION



ZS-6050 UV Printer

ZS-6090 UV Printer

Model	ZS-6050 UV Printer	ZS-6090 UV Printer
Print size	60x50CM	60x90CM
Number of nozzles	2 PCS	3 PCS
Print speed	Three adjustable speeds: high, medium, and low	
Print height	20CM	20CM
Drop height	5mm	5mm
Ink supply system	Complete industrial negative pressure ink supply system	
Power requirements	AC220/10+1050~60HZP00W	
Printing software	Maintop/Ruicolor pro/Ruipress	
Print format	JPG/PDF/AI/CDR/TIF/EPS/CAD	
Ink type	UV ink/Textile ink/Water-based ink	

UV PRINTING SOLUTION



ZS-9060 UV Printer



ZS-1010 UV Printer

Model	ZS-9060 UV Printer	ZS-1010 UV Printer
Print size	90x60CM	100x100CM
Number of nozzles	4PCS	4PCS high precision Epson head
Print speed/accuracy	High, medium, and low option	1440x2160x2880dpi
Print height	20CM	50CM
Drop height	5mm	5mm-10mm
Ink supply system	Complete industrial negative pressure ink supply system	
Power requirements	AC220/10+1050~60HZP00W	
Printing software	Maintop/Ruicolor pro/Ruipress	
Print format	JPG/PDF/AI/CDR/TIF/EPS/CAD	
Ink type	UV ink/Textile ink/Water-based ink	

UV PRINTING VISION SOLUTION



机型大小均可加装视觉定位系统
具体定制信息请联系我们!
Visual positioning system can be added to all models and sizes.
Please contact us for specific customization information!

Intelligent visual positioning uses a built-in camera and image recognition technology to automatically locate existing patterns or marks on the object's surface, achieving high-precision alignment printing. It can intelligently recognize contours and positions, and automatically calibrate even if the object is slightly misaligned, ensuring a perfect fit between the colored pattern and the substrate.

HIGH DEFINITION CCD VISUAL POSITIONING

高清 CCD视觉定位

打破常规解放人工
BREAKING THE MOLD AND FREEING UP LABOR

- 高识别精度
- 实时监控
- 准确定位
- 快速识别
- 低误差率
- 稳定性好



自动识别图形

AUTOMATIC
GRAPHIC RECOGNITION

精准识别定位

ACCURATE
IDENTIFICATION AND
LOCALIZATION

操作简单

EASY OPERATION

ZS-Roll flat all in one UV Printer



This machine is made by adding a roll-to-roll printing fixture to a regular flatbed printer. It is easy to disassemble and is multi-functional, capable of printing flatbed prints as well as roll-to-roll prints such as crystal labels, stickers, and vehicle decals.

Device Print Size	50cm wide roll material with no length limit
Printing speed	Three adjustable speeds: high, medium, and low
Print height	20CM
Drop height	5mm
Ink supply system	Complete industrial negative pressure ink supply system
Power requirements	AC220/10+1050~60HZP00W
Printing software	Maintop/Ruicolor pro/Ruipress
Ink type	UV ink/Textile ink/Water-based ink

High-speed cylindrical printer



High-speed cylindrical printer, 30-second high-speed printing, 360-degree seamless splicing, intelligent angle adjustment for decoration, capable of printing irregular shapes, simultaneous white and color varnish output, high color saturation, and excellent results.

Device Print diameter	3CM or more
Printing lenth	0-30CM
Print speed	30s/1peice
Ink supply system	Complete industrial negative pressure ink supply system
Print accurate	1440x2160x2880dpi
Print heads	3PCS high precision Epson print heads
Solidification	LED light fixing lamp
Size/Weight	130x60x70CM/180Kg



**Win-win cooperation
serves the world**

SERVICE PRINCIPAL



24 hours after sale service



We promises to provide free warranty and lifelong maintenance according to different models and power.

Provide life-long free technical consultation, software upgrade and other services



We can provide English guide videos

CONTACT US



You can contact our professional business personnel through the following contact information to learn more about our products and services

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