



Shenzhen Ideeda Technology Co., Ltd.

IDEEDA

LASER EQUIPMENT

Product Manual

Manufacturer of Professional Laser Equipment

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COMPANY PROFILE

Established in 2015 and based in Longgang District, Shenzhen, Guangdong Province, with a branch office in Zhongshan, our company is a robust, self-developed manufacturing facility that integrates R&D, production, processing, customisation, sales and export trade. Our operations are based in a standardised factory that spans over 2,000 square metres, in addition to a dedicated warehouse of 800 square metres. We currently have a workforce of more than 50 employees. Our comprehensive facilities and staffing provide a solid foundation for the operation of our end-to-end business.

As a leading enterprise specialising in the field of laser marking equipment, our business scope encompasses the R&D, production and sales of various types of laser marking equipment. Our product range includes fibre laser marking machines, CO2 laser marking machines, UV laser marking machines, portable laser engraving machines and customised automated laser marking equipment. We offer personalised services such as OEM, customisation based on client samples and private label manufacturing, enabling us to fully meet the diverse needs of clients across different industries.

The company possesses outstanding operational capabilities and has been deeply rooted in the industry for many years. It has been certified as a High-Tech Enterprise and owns the proprietary brand 'IDEEDA'. The company's R&D team is well-structured, with two R&D personnel, two structural engineers and four process engineers. The company holds over 60 product technology patents and has obtained multiple authoritative certifications, including ISO 9001, CE and RoHS. These certifications demonstrate the company's robust R&D and production capabilities. We provide clients with comprehensive support at every stage of the collaboration process, from solution design and free prototyping to on-site services, ensuring seamless integration and effective resolution of any issues that may arise.

Quality control measures are implemented at every stage of the production process. The company operates dedicated assembly, cleanroom and laser ageing workshops, equipped with multiple sets of high-precision testing and calibration instruments, including laser calibration, power testing and 2D measurement systems, to guarantee equipment quality from the outset. We use components from leading brands, including laser sources, galvanometers, field lenses, control cards and power supplies. This ensures the stability and longevity of our equipment. Our supply chain operates with high efficiency, supporting single-unit customisation. Stock orders are dispatched within 24 hours, while customised products can be delivered within 3-7 days, efficiently meeting our customers' delivery requirements.

Our company is proud to offer high-quality products, professional services and robust capabilities. These attributes have contributed to the popularity of our products in the domestic market and have enabled us to establish a strong presence in Europe, the Americas, the Middle East, Southeast Asia and other regions across Asia and Africa. This has led to widespread recognition and trust from customers both at home and abroad.

SERVICE GUARANTEE

FREE SAMPLING

Provide free sampling services based on customer provided samples

FREE TRAINING

Provide one-on-one training and guidance to customer operators to quickly get started with the operation

WHOLE MACHINE WARRANTY

The whole machine comes with a one-year warranty, and there is a free warranty for non-human damage.

GRAPHICS PROCESSING

Based on the content and requirements provided by the customer, process the marked images and text content

PROCESS DEBUGGING

Mark the process according to customer requirements and test the optimal process effect

LIFETIME AFTER-SALES SERVICE

The equipment is still under warranty and provides maintenance services, so there is no need to worry about any malfunctions

CERTIFICATE



*For more certificate information, please contact our company for inquiry

PARTNERS



*The above companies are ranked in no particular order

FIBER

LASER MARKING MACHINE

Assemble 10W laser power

Wavelength
1064nm

Pulse Width
110ns

Cooling
Air Cooling



Support Windows / Mac OS / Android / IOS
Compatible Lightburn

IDZ

Power : 10W

Size : 310*205*400mm

Weight : 6.2KG

APPLICATION

Widely applicable to metals and alloys, such as steel, iron, copper, aluminium, gold, silver and titanium, as well as to non-transparent hard plastics, such as ABS, PVC and PC, and to paint, electroplating, stone, ceramics and silicon, among other materials.

PARAMETER

Laser Wavelength	1064nm
Laser Power	10W
Marking Range	110*110mm
Focusing Method	Dual red light focusing
Marking Speed	7000mm/s
Minimum Character	0.2mm (View materials) @F=160mm
Minimum Line Width	0.06mm (View materials) @F=160mm
Frequency	30-60kHz
Repeatability	≤0.01mm
System Languages	PC: CN/EN/DE/FR/ES/TC/JA/KO etc.
	APP: CN/EN
Supported File Formats	PLT/DXF/AI/SVG/JPG/GIF/BMP/PNG etc.
Support System	Windows/Mac OS、Android/IOS、Compatibility Lightburn
Cooling Method	Air Cooling
Input Voltage	110-220V,50-60Hz

Sample Display



*For more sample information, please contact our company for detailed understanding.

FIBER

LASER MARKING MACHINE

Assemble 20/30W and other different power

Wavelength
1064nm

Pulse Width
150~200ns

Cooling
Air Cooling



Support Windows/Mac OS、Android/IOS
Compatible Lightburn

IDX

Power : 20W / 30W / 50W
Size : 345*265*465mm
Weight : 10.2KG

PARAMETER

Laser Wavelength	1064nm
Laser Power	20W / 30W/ 50W
Marking Range	110*110mm
Focusing Method	Dual red light focusing
Marking Speed	7000mm/s
Minimum Character	0.2mm (View materials) @F=160mm
Minimum Line Width	0.06mm (View materials) @F=160mm
Frequency	30-60kHz
Repeatability	≤0.01mm
System Languages	PC: CN/EN/DE/FR/ES/TC/JA/KO etc.
	APP: CN/EN
Supported File Formats	PLT/DXF/AI/SVG/JPG/GIF/BMP/PNG etc.
Supported System	Windows/Mac OS、Android/IOS、compatible Lightburn
Cooling Method	Air Cooling
Input Voltage	110-220V,50-60Hz

Sample Display



*For more sample information, please contact our company for detailed understanding.

APPLICATION

Widely applicable to metals and alloys, such as steel, iron, copper, aluminium, gold, silver and titanium, as well as to non-transparent hard plastics, such as ABS, PVC and PC, and to paint, electroplating, stone, ceramics and silicon, among other materials.

DUAL-LIGHT

LASER ENGRAVER MACHINE

Assemble 2W fiber + 10W blue light laser power

Wavelength
1064 & 455nm

Laser Type
FIBER & BULE

Cooling
Air Cooling



Support Windows/Mac OS、Android/IOS
Compatible Lightburn

IDY

Power : 2W (Fiber) & 10W (Bule)
Size : 300*200*320mm
Weight : 5.2KG

PARAMETER	
Laser Wavelength	1064nm&455nm
Laser Power	2W (Fiber) + 10W (Bule)
Markign Range	100*100mm
Fousing Method	Dual red light fousing
Lifting Method	Electric lifting
Marking Speed	7000mm/s
Marking Depth	0.015-0.5mm (Differences in materials)
Minimum Character	0.2mm (Differences in materials)
Minimum Line Width	0.001-0.03mm (Differences in materials)
System Languages	PC: CN/EN/DE/FR/ES/TC/JA/KO etc.
	APP: CN/EN
Supported File Formats	PLT/DXF/AI/SVG JPG/GIF/BMP/PNG etc.
Supported System	Windows/Mac OS、Android/IOS、Compatible Lightburn
Cooling Method	Air Cooling
Input Voltage	DC(24V,5A) AC(110-220V,50-60Hz)

Sample Display



*For more sample information, please contact our company for detailed understanding.

APPLICATION

Suitable for marking a wide range of materials, including paper, leather, bamboo, wood, food, metal, paint and electroplating, as well as some plastics and other common materials.

DUAL-LIGHT

LASER ENGRAVER MACHINE

Assemble 20W fiber + 20W blue light laser power
30W fiber + 20W blue light laser power

Wavelength	Laser Type	Cooling
1064 & 455nm	FIBER & BLUE	Air cooling



Support Windows/Mac OS、Android/IOS
Compatible Lightburn

IDP
Power : 20W(Fiber) + 20W(Blue Light)
30W(Fiber) + 20W(Blue Light)
Size : 370*290*510 mm
Weight : 21KG

APPLICATION

Suitable for marking a wide range of materials, including paper, leather, bamboo, wood, food, metal, paint and electroplating, as well as some plastics and other common materials.
Cut 5-7 mm plywood and 7-10 mm pine boards, as well as 0.1-0.3 mm metal sheets.

TECHNICAL PARAMETER	
Laser Wavelength	1064nm + 455nm
Laser Power	20W (Fiber)+20W (Blue) / 30W (Fiber)+20W (Blue)
Marking Range	150*150mm
Focusing Method	Dual red light focusing
Lifting Method	Electric lifting
Marking Speed	≤7000mm/s
Minimum Line Width	0.02mm (Depending on the material)
Marking Depth	0.01mm-5mm (Depending on the material)
Protection Method	Fully Enclosed Acrylic
Software Languages	PC: CN/EN/DE/FR/ES/TC/JA/KO etc.
	APP: CN/EN
Support File Formats	PLT/DXF/AI/SVG JPG/GIF/BMP/PNG etc.
Support System	Windows/Mac OS、Android/IOS、Compatibility Lightburn
Input Voltage	DC(24V,5A) AC(110-220V,50-60Hz)

Sample Display



*For more sample information, please contact our company for detailed understanding.

Crystal 3D

LASER INTERNAL MARKING MACHINE

Focus on the material such as glass crystal inside carving

Wavelength
355nm

Marking Method
2D / 3D

Cooling:
Air Cooling



IDS

Power : 5W (UV)

Size : 350*280*500mm

Weight : 24KG

APPLICATION

Mainly used in the material such as glass, crystal, artificial stones inside carving, suitable for DIY craft, business street, office scenario, personal customization, jewelry jewelry engraving and other application scenario.

TECHNICAL PARAMETER

Laser Wavelength	355nm
Laser Power	5W (UV)
Marking Range	70*70mm
Lifting And Lowering Method	Electric lift
Marking Speed	≤7000mm/s
Focal Length	80~100mm
Minimum Line Width	0.02mm (View materials)
Marking Depth	≤0.1mm (View materials)
Connect Method	Ethernet port / USB
Support Software	RK-CAD
Software Languages	CN/EN/DE/FR/ES/TC/KOR/JA etc.
Support File Formats	2D:SVG/DXF/JPG/GIF/PNG/BMP/WEBP 3D:STL/OBJ/AMF/3MF/GLB/PLY
Support System	Windows
Input Voltage	110V-240V 50HZ-60HZ

Sample Display



*For more sample information, please contact our company for detailed understanding.

HAND-TYPE

LASER MARKING MACHINE

Assemble 20/30/50W and other different power

Wavelength
1064nm

Charging Method
Plug in/
Lithium battery

Cooling
Air Cooling



DLM-SH

Power : 20W / 30W / 50W

Size : (Machine head)260*120*290mm
(Machine body)300*190*260mm

Weight : 7.3KG

APPLICATION

Widely applicable to large, heavy and other products that are difficult to move. It is suitable for materials such as metal, painted surfaces, hard plastic and stone.

TECHNICAL PARAMETER

Laser Wavelength	1064nm
Laser Power	20W / 30W / 50W
Marking Range	110*110mm
Focusing Method	Red light indication
Marking Speed	≤12000mm/s
Focal Length	183.5mm
Minimum Line Width	0.0012mm
Frequency	30-60kHz
Repeatability Accuracy	≤0.003mm
System Languages	CN/EN/DE/FR/ES/TC/JA/KO etc.
Supported File Formats	BMP/DXF/HPGL/JPEG/PLT etc.
Operate System	Touch screen
Cooling Method	Air Cooling
Power Consumption	≤0.55kW

Sample Display



*For more sample information, please contact our company for detailed understanding.

FIBER Series

Laser Marking Machine

Wavelength
1064nm

Pulse Width
150~200ns

Cooling
Air Cooling



DLM-FC Cabinet-Type
Power : 20W / 30W / 50W / 60W / 100W
Size : 600*800*1340mm
Weight : 68KG

APPLICATION

Commonly used for various metal materials such as stainless steel, gold, silver, copper, iron, aluminum, etc, PC, ABS, PVC, Hard opaque plastics, as well as paint, electroplating, and clay materials; Widely used in industries such as 3C, automotive parts, electronic components, integrated circuits (ICs), electrical appliances, precision instruments, hardware products, building materials, jewelry, etc.



DLM-FD Desktop-Type

Power : 20W / 30W / 50W

Size : 600*350*830mm

Weight : 23.4KG



DLM-FS Split-Type

Power : 20W / 30W / 50W / 60W / 100W

Size : (Main machine)550*350*650mm
(Main box)230*450*400mm

Weight : 29KG



DLM-FH Handheld-Type

Power : 20W / 30W / 50W

Size : 590*210*680mm

Weight : 38KG

*Manual measurement data may have certain errors, Please refer to the actual product.

Core Component



Laser Source



Control Card



Field Lens



Galvanometer

Laser Source

Branded laser used, multiple power options available to meet different process requirements, beam quality stable, long lifespan, delicate marking effect.

Optional Power

20W/30W/50W/60W/100W/200W/300W etc.

Optional Brand



Galvanometer

Composed of optical refraction lenses and servo controllers, it has good marking effect, no distortion, and improves the quality and speed of the marking machine.

Optional Type

Ordinary / High-speed / Dual red / 3D

Optional Brand



Control Card

Genuine marking software, comprehensive functions, meeting different needs, stable performance, continuous operation.

Optional Software

Ezcad2 / ADD Mark

Optional Brand



Field Lens

High transmission field lens, stable beam quality, uniform and dense spot, more accurate marking effect.

Optional Range

110*110 / 150*150 / 175*175 / 220*220 / 300*300mm etc. (Scanning Range)

Optional Brand



TECHNICAL PARAMETER

Laser Parameter	Brand	Raycus / MAX / JPT / HAN'S LASER / IDEEDA etc. (Optional)
	Laser Wavelength	1064nm
	Laser Power	20W / 30W / 50W / 60W / 100W / 200W / 300W etc. (Optional)
	Frequency	30-60kHz
	Pulse Width	150-200ns
Galvanometer	Brand	SPS / ZBTK / SINO etc. (Optional)
	Type	Normal / High speed / Double red light / 3D
	Marking Speed	7000mm/s
	Repetitive Accuracy	≤0.01mm
	Minimum Line Width	0.06mm (View materials)
Field Lens	Brand	JiangSu Yida / NanJing Wavelength (Optional)
	Focal Length	160mm (Standard)
	Marking Range	110*110 (Standard) / 150*150 / 175*175 / 220*220 / 300*300mm (Optional)
Control System	Control Card	JCZ / BSL
	Software & Language	Software : Ezcad2 / ADD Mark Language : CN/EN/DE/FR/ES/TC/JA/KO etc.
	System	Windows (Compatible with LightBurn)
	Film Format	PLT/DXF/AI/SVG JPG/GIF/BMP/PNG etc.
Other	Cooling Method	Air cooling
	Power Supply	110V-220V 50HZ-60HZ
	Power Consumption	≤0.55kW·h

Sample Display



*For more sample information, please contact our company for detailed understanding.

MOPA Series

Laser Marking Machine

Wavelength
1064nm

Pulse Width
2~500ns

Cooling
Air Cooling



DLM-MS Split-Type

Power : 20W / 30W / 60W / 100W
Size : (Main machine) 550*350*650mm
(Main box) 450*230*400mm
Weight : 29KG

APPLICATION

Focus on marking black on alumina, black and colored on stainless steel and titanium metal surfaces; Suitable for metal deep processing, electronic and electrical industry, automotive and parts, hardware tool, medical equipment, plastic products and other fields.



DLM-MD Desktop-Type

Power : 20W / 30W / 60W
Size : 600*350*830mm
Weight : 23.4KG



DLM-MC Cabinet-Type

Power : 20W / 30W / 60W / 100W / 200W
Size : 600*800*1340mm
Weight : 68KG

*Manual measurement data may have certain errors, Please refer to the actual product.

Core Component



Laser Source



Control Card



Field Lens



Galvanometer

Laser Source

Brand pulse laser, adjustable pulse width, uniform laser density, stable output optical power, high marking accuracy, delicate marking effect.

Optional Power

20W/30W/60W/100W/200W etc.

Optional Brand



Galvanometer

Composed of optical refraction lenses and servo controllers, it has good marking effect, no distortion, and improves the quality and speed of the marking machine.

Optional Type

Ordinary / High-speed / Dual red / 3D

Optional Brand



Control Card

Genuine marking software, comprehensive functions, meeting different needs, stable performance, continuous operation.

Optional Software

Ezcad2 / ADD Mark

Optional Brand



Field Lens

High transmission field lens, stable beam quality, uniform and dense spot, more accurate marking effect.

Optional Range

110*110 / 150*150 / 175*175 / 220*220 / 300*300mm etc. (Scanning Range)

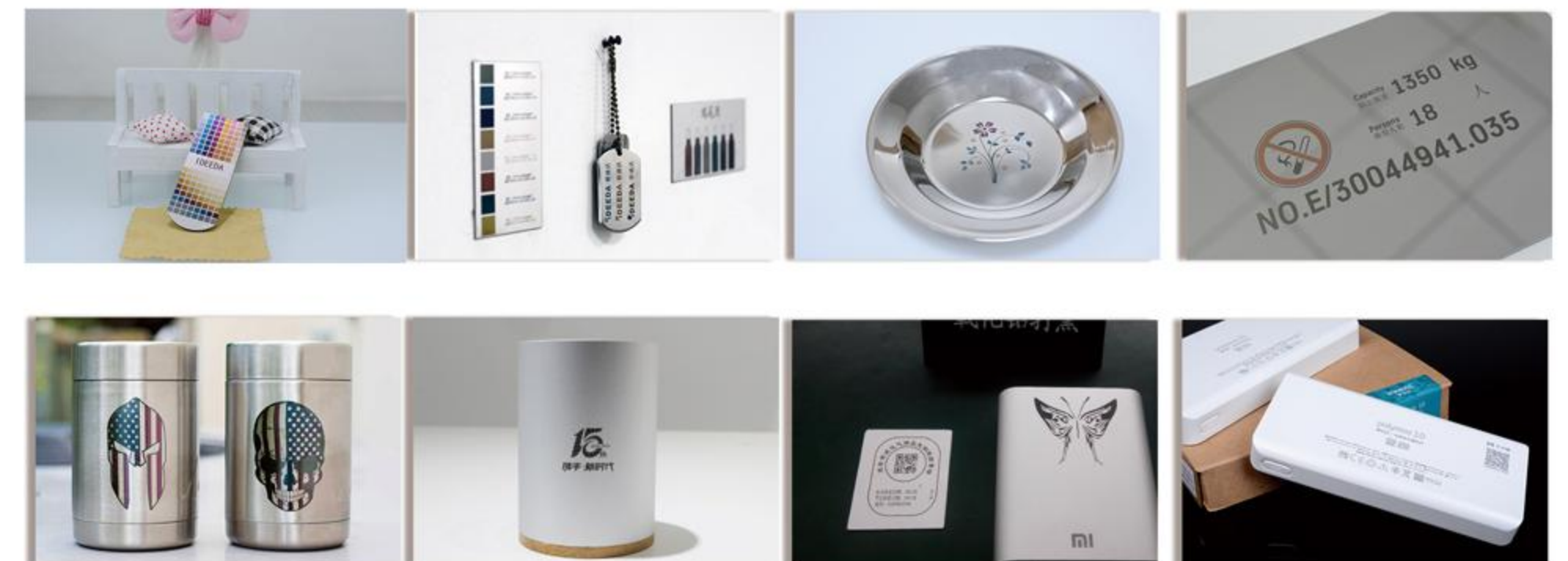
Optional Brand



TECHNICAL PARAMETER

Laser Parameter	Brand	JPT / GZTECH etc. (Optional)
	Laser Wavelength	1064nm
	Laser Power	20W / 30W / 60W / 100W / 200W etc. (Optional)
	Pulse Repetition Frequency	1-4000kHz
	Pulse Width	2-500ns (Adjustable)
Galvanometer	Brand	SPS / ZBTK / SINO etc. (Optional)
	Type	Normal / High speed / Double red light / 3D
	Marking Speed	7000mm/s
	Repetitive Accuracy	≤0.01mm
	Minimum Line Width	0.06mm (View materials)
Field Lens	Brand	JiangSu Yida / NanJing Wavelength (Optional)
	Focal Length	160mm (Standard)
	Marking Range	110*110 (Standard) / 150*150 / 175*175 / 220*220 / 300*300mm (Optional)
Control System	Control Card	JCZ / BSL
	Software & Language	Software : Ezcad2 / ADD Mark Language : CN/EN/DE/FR/ES/TC/JA/KO etc.
	System	Windows (Compatible with LightBurn)
	Film Format	PLT/DXF/AI/SVG JPG/GIF/BMP/PNG etc.
Other	Cooling Method	Air cooling
	Power Supply	110V-220V 50HZ-60HZ
	Power Consumption	≤0.55kW·h

Sample Display



*For more sample information, please contact our company for detailed understanding.

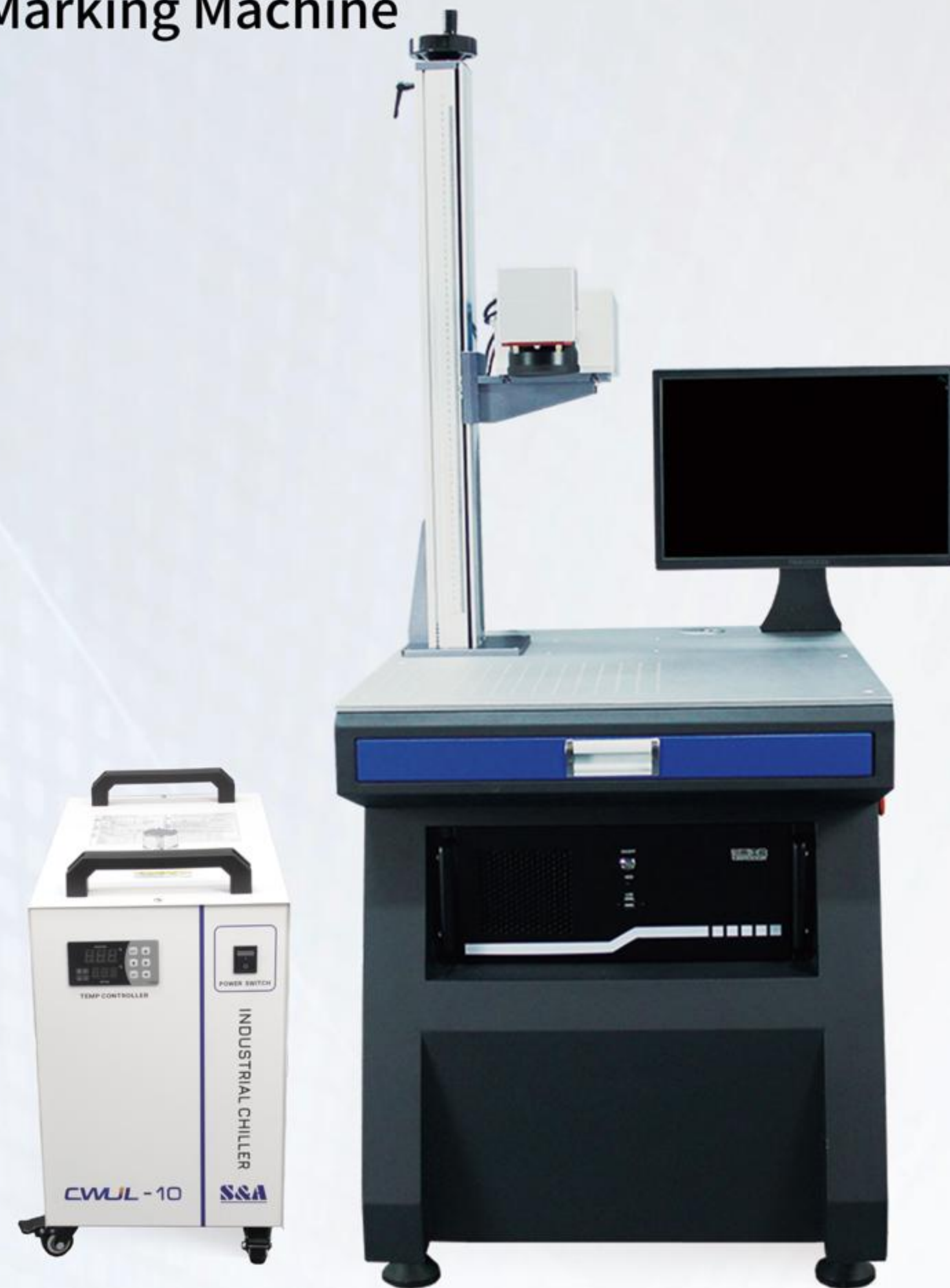
UV Series

Laser Marking Machine

Wavelength
355nm

Pulse Width
15~25ns

Cooling
Water / Air



DLM-UC Cabinet-Type

Power : 5W / 10W / 15W

Size : 650*800*1640mm

Water Tank Size : 650*360*560mm

Weight : 81.4KG

APPLICATION

Commonly used in various materials such as plastic, glass, metal, silicone, wood, bamboo, paper, film, ceramics, leather, acrylic, as well as DIY applications such as leaves and food surfaces; Widely used in precision instruments, electronic components, gift food and drug packaging, silicon wafer micro hole and blind hole processing as well as Glass, metal coating marking.



DLM-UD Desktop-Type (Optional Water Cooling)

Power : 5W / 10W

Size : 600*300*830mm

Water Tank Size : 650*360*560mm

Weight : 28KG



DLM-US Split-Type (Optional Water Cooling)

Power : 5W / 10W

Size : (Main machine) 550*350*650mm
(Main box) 450*230*400mm

Water Tank Size : 650*360*560mm

Weight : 32.5KG



DLM-UC Cabinet-Type (Optional Water Cooling)

Power : 5W / 10W / 15W

Size : 780*680*1640mm

Water Tank Size : 650*360*560mm

Weight : 80KG



DLM-UC Cabinet-Type (Optional Water Cooling)

Power : 5W / 10W / 15W

Size : 600*800*1340mm

Water Tank Size : 650*360*560mm

Weight : 70KG

*Manual measurement data may have certain errors, Please refer to the actual product.

Core Component



Laser Source

Using a 355nm ultraviolet laser, the focused spot is small, the heat affected area is small, avoiding damage to the processed material, and the marking effect is fine.

Optional Power

3W/5W/10W/15W/20W etc.

Optional Brand



Galvanometer

Composed of optical refraction lenses and servo controllers,it has good marking effect, no distortion, and improves the quality and speed of the marking machine.

Optional Type

Ordinary / High-speed / Dual red / 3D

Optional Brand



Control Card

Genuine marking software, comprehensive functions, meeting different needs, stable performance, continuous operation.

Optional Software

Ezcad2 / ADD Mark

Optional Brand



Field Lens

High transmission field lens, stable beam quality, uniform and dense spot,more accurate marking effect.

Optional Range

110*110 / 150*150 / 175*175 / 220*220 / 300*300mm etc. (Scanning Range)

Optional Brand



TECHNICAL PARAMETER

Laser Parameter	Brand	JPT / DXT / RFH / HAN'S LASER / Gainlaser (Optional)
	Laser Wavelength	355nm
	Laser Power	5W / 10W / 15W / 20W etc. (Optional)
	Pulse Repetition Frequency	20-200kHz
	Pulse Width	15-25ns
Galvanometer	Brand	SPS / ZBTK / SINO etc. (Optional)
	Type	Normal / High speed / Double red light / 3D
	Marking Speed	7000mm/s
	Repetitive Accuracy	≤0.001mm
	Minimum Line Width	0.02mm(View materials)
Field Lens	Brand	JiangSu Yida / NanJing Wavelength (Optional)
	Focal Length	160mm (Standard)
	Markign Range	110*110 (Standard) / 150*150 / 175*175 / 220*220 / 300*300mm (Optional)
Control System	Control Card	JCZ / BSL
	Software & Language	Software : Ezcad2 / ADD Mark Language : CN/EN/DE/FR/ES/TC/JA/KO etc.
	System	Windows (Compatible with LightBurn)
	Film Format	PLT/DXF/AI/SVG JPG/GIF/BMP/PNG etc.
Other	Cooling Method	Water Cooling & Air Cooling
	Power Supply	110V-220V 50HZ-60HZ
	Power Consumption	≤0.65kW·h

Sample Display



*For more sample information, please contact our company for detailed understanding.

CO₂ Series

Laser Marking Machine

Wavelength
10.6um

Cooling
Air Cooling



DLM-CC Cabinet-Type
Power : 30W / 40W / 60W / 100W
Size : 600*800*1340mm
Weight : 72.5KG

APPLICATION

It is suitable for materials such as wood, bamboo, paper, leather, fabric, rubber, PET, nylon, glass, ceramics, jade, acrylic, etc; Widely used in various industries to mark product numbers, barcodes QR code, trademark, pattern and other information.



DLM-CD Desktop-Type
Power : 30W / 40W
Size : 600*350*830mm
Weight : 30.5KG



DLM-CS Split-Type
Power : 30W / 40W / 60W
Size : (Main machine) 550*350*650mm
(Main box) 450*230*400mm
Weight : 35KG

*Manual measurement data may have certain errors, Please refer to the actual product.

Core Component



Laser Source



Control Card



Field Lens



Galvanometer

Laser Source

Adopting a 10.6um closed carbon dioxide solid-state laser, the laser has a lifespan of over 20000 hours and is characterized by high marking accuracy and fast processing speed.

Optional Power

30W/40W/60W/100W etc.

Optional Brand



Galvanometer

Composed of optical refraction lenses and servo controllers, it has good marking effect, no distortion, and improves the quality and speed of the marking machine.

Optional Type

Ordinary / High-speed / Dual red / 3D

Optional Brand



Control Card

Genuine marking software, comprehensive functions, meeting different needs, stable performance, continuous operation.

Optional Software

Ezcad2 / ADD Mark

Optional Brand



Field Lens

High transmission field lens, stable beam quality, uniform and dense spot, more accurate marking effect.

Optional Range

110*110 / 150*150 / 175*175 / 220*220 / 300*300mm etc. (Scanning Range)

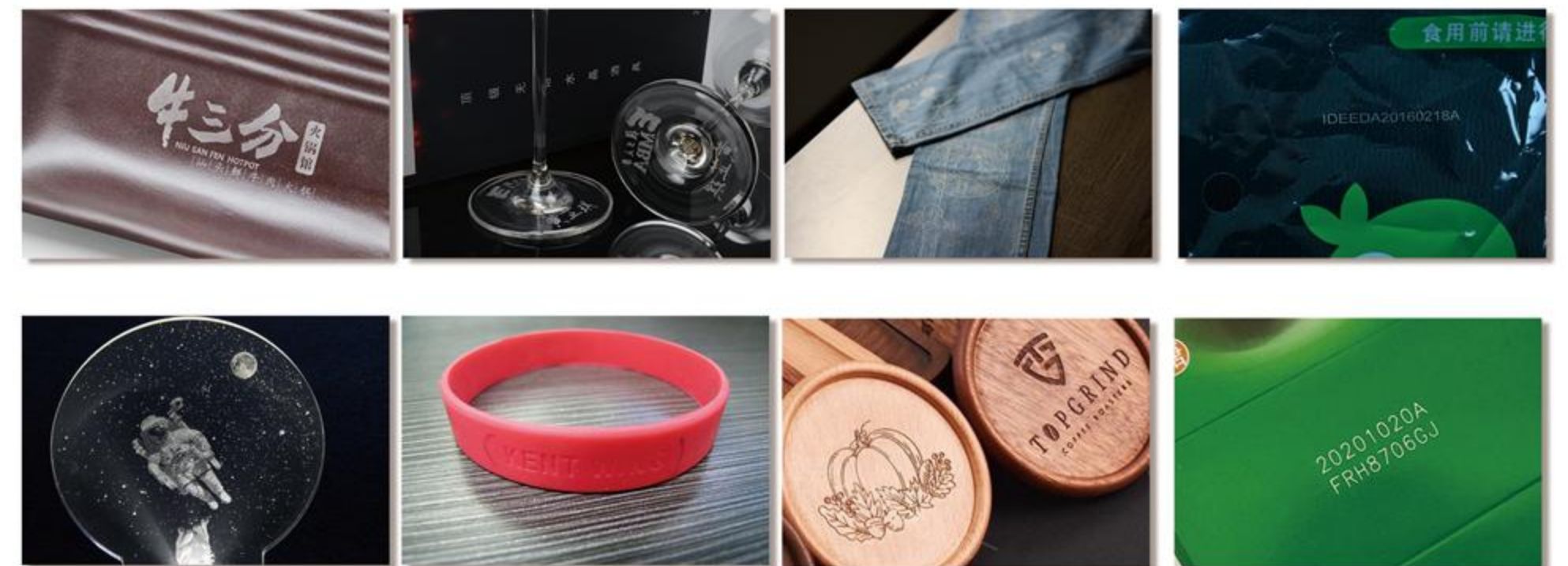
Optional Brand



TECHNICAL PARAMETER

Laser Parameter	Brand	DAVI / CRD / Coherent (Optional)
	Laser Wavelength	10.6um
	Laser Power	30W / 40W / 60W / 100W etc. (Optional)
	Pulse Repetition Frequency	0-25kHz
	Pulse Width	-
Galvanometer	Brand	SPS / ZBTK / SINO etc. (Optional)
	Type	Normal / High speed / Double red light / 3D
	Marking Speed	7000mm/s
	Repetitive Accuracy	≤0.1mm
	Minimum Line Width	0.1mm(View materials)
Field Lens	Brand	JiangSu Yida / NanJing Wavelength (Optional)
	Focal Length	160mm (Optional)
	Marking Range	110*110 (Standard) / 150*150 / 175*175 / 220*220 / 300*300mm (Optional)
Control System	Control Card	JCZ / BSL
	Software & Language	Software : Ezcad2 / ADD Mark Language : CN/EN/DE/FR/ES/TC/JA/KO etc.
	System	Windows / Mac / Lightburn
	Film Format	PLT/DXF/AI/SVG JPG/GIF/BMP/PNG etc.
Other	Cooling Method	Air Cooling
	Power Supply	110V-220V 50HZ-60HZ
	Power Consumption	≤0.65kW·h

Sample Display



*For more sample information, please contact our company for detailed understanding.

FLYING Series

Laser Marking Machine High-Speed Marking



DLM-FA Fiber-Type

Power : 20W / 30W / 50W / 60W / 100W
Size : 510*660*1420mm
Weight : 51.2KG

APPLICATION

Suitable for the 3C, electronic components, packaging bags, plastic bottles, cable pipes, as well as electronic components, medical, food, beverage packaging, craft gifts and other industries. It can operate continuously for a long time on large-scale online processing and assembly lines.



DLM-CA CO₂-Type

Power : 30W / 40W / 60W / 100W
Size : 510*660*1420mm
Weight : 55.7KG



DLM-UA UV-Type

Power : 5W / 10W / 15W
Size : 510*660*1420mm
Weight : 53.2KG

*Manual measurement data may have certain errors, Please refer to the actual product.

FLIGHT-Light Source Introduce



CO₂-FIGHT LASER

Using a 10.6um wavelength laser, the laser beam is deflected by a galvanometer system and focused on the material surface for ablation to form marks. It has the characteristics of high marking accuracy and fast processing speed.

Materials & Industry

Suitable for organic materials such as wood, leather, paper, acrylic, etc, High molecular polymer materials such as ABS, PP, PE and rubber,as well as packaging, electronics, building materials, and crafts industrie.

FIBER-FIGHT LASER

Using fiber laser to output laser, with high electro-optical conversion rate, no need for external water cooling equipment, and good beam quality,laser has a long service life and low maintenance costs.

Materials & industry

Suitable for metal alloys, some engineering plastics, and coating materials.Industries such as automotive manufacturing, hardware tools, electronic appliances, etc.



UV-FIGHT LASER

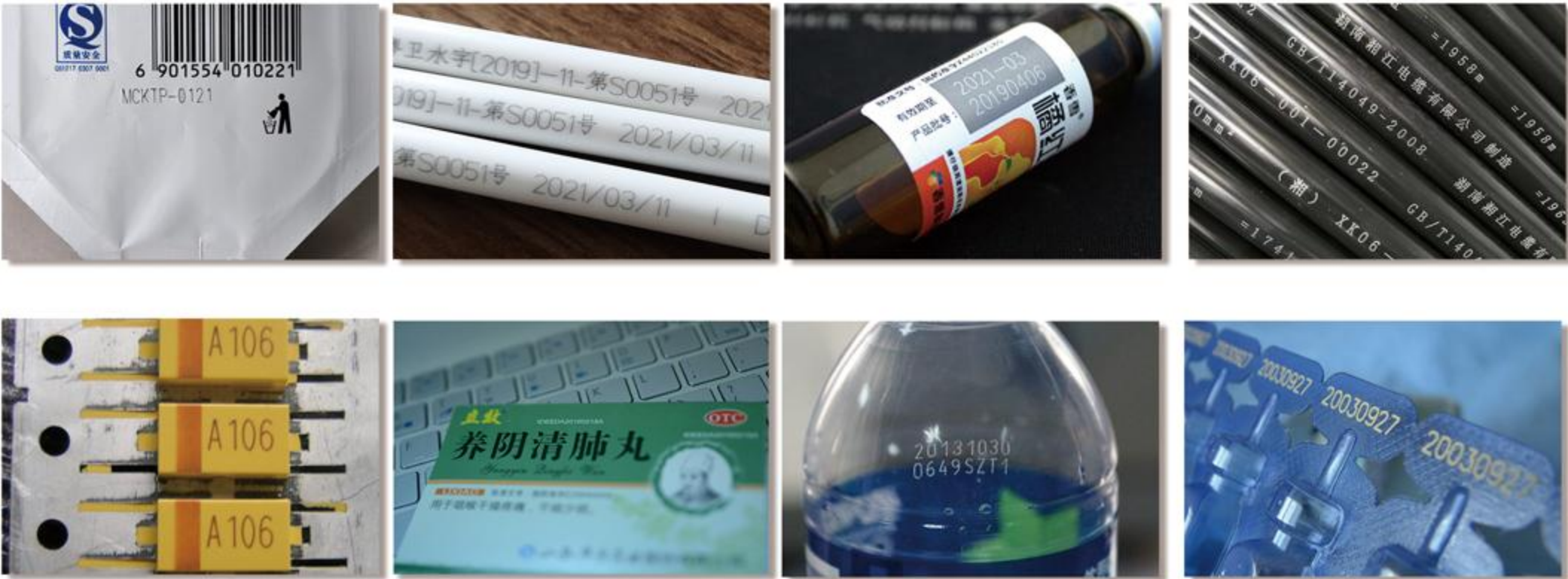
Using a 355nm wavelength laser to achieve "cold processing", it has the characteristics of good beam quality, small focused spot, small heat affected zone, and avoiding damage to the processed material.

Materials & Industry

It is applicable to plastic materials such as PE, PET, PC, as well as film and coating material. Industries such as semiconductors, medical devices, electronic components, and precision machinery.

Technical parameter	Fiber Laser	UV Laser	CO ₂ Laser
Laser Wavelength	1064nm	355nm	10.6um
Laser Power	20W / 30W / 50W / 60W / 100W	5W / 10W / 15W	30W / 40W / 60W / 100W
Marking Range	110*110mm (Optional)	110*110mm (Optional)	110*110mm (Optional)
Marking Speed	≤7000mm/s	≤7000mm/s	≤7000mm/s
Minimum Character	0.2mm (View materials)	0.1mm (View materials)	0.4mm (View materials)
Standrad Line Width	0.06mm (View materials)	0.02mm (View materials)	0.1mm (View materials)
Pulse Width	2-500ns	<15ns	—
Pulse Repetition Frequency	1-4000KHz	20-200KHz	0-25KHz
Software Language	CN/EN/DE/FR/ES/TC/JA/KO etc.		
File Format	PLT/DXF/AI/SVG JPG/GIF/BMP/PNG etc.		
Cooling Method	Air Cooling	Water & Air Cooling	Air Cooling
Power Supply	110V-220V 50HZ-60HZ	110V-220V 50HZ-60HZ	110V-220V 50HZ-60HZ
Power Consumption	<0.55kW	<0.65kW	<0.65kW

Sample Display



*For more sample information, please contact our company for detailed understanding.

DLM-3DUC

GALVANOMETER LASER MARKING MACHINE

Applicable to Fiber,UV and CO2 type light sources

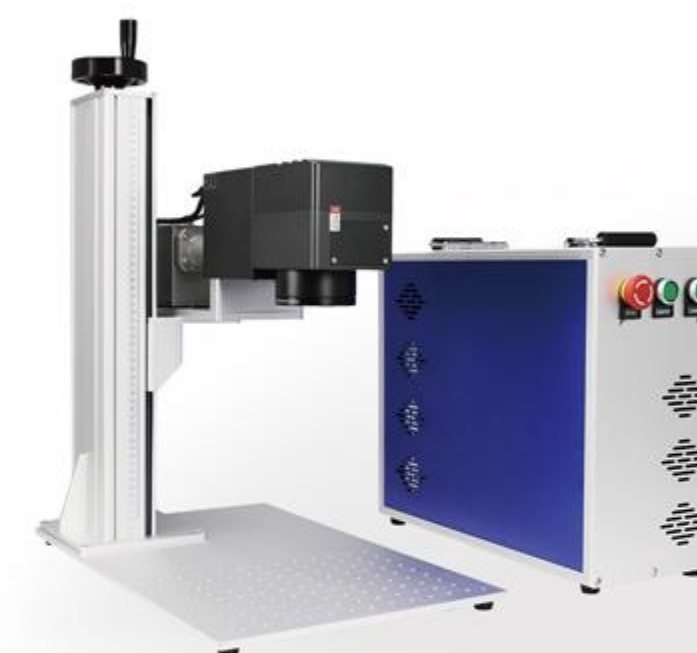


DLM-3D

Laser-power :
Fiber Laser-50W / 60W / 100W / 200W
Uv Laser- 5W /10W /15W /20W
Size : 780*680*1640mm
Weight : 81KG

APPLICATION

Used for metal, plastic, ceramic, glass, coating, wood, leather, composite materials, etc., mainly solving the problem of surface focusing, suitable for industries such as automotive, 3C electronics, medical equipment, hardware tools, plastic products, jewelry, etc.



DLM-3D-US

Power : 5W / 10W / 15W

Size : (Main machine) 550*350*650mm
(Main box) 450*230*400mm

Weight : 32.5KG



DLM-3D-FC

Power : 20W / 30W / 50W / 60W / 100W

Size : 600*800*1340mm

Weight : 72.5KG



DLM-3D-FA

Power : 50W / 60W / 100W / 200W

Size : 510*660*1420mm

Weight : 55KG

Application Range

The 3D laser marking machine is specifically designed for applications such as high and low marking, curved surfaces, irregular surfaces, 3D models, deep engraving/relief, precision cutting, flying marking, large-format marking, and automatic focusing. Whether the workpiece surface is flat, curved, or has height differences, it achieves exceptionally high uniformity and consistency in marking effects through dynamic focus adjustment.



Static high low position
Marking at different heights in a static environment



Internal , relief carving
Laser shapes images inside objects



Large format marking
The marking range can reach 300 * 300mm



Surface marking
Model can be imported and labeled with stickers



Irregular surface marking
Support importing complex models and attaching labels



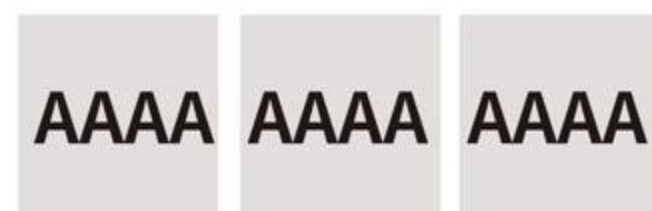
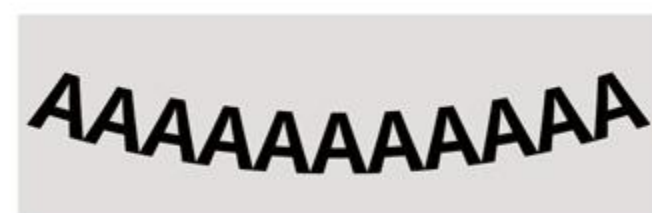
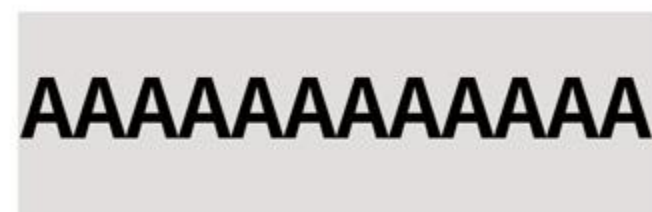
3D molding
Support layered solid forming

Effect Comparison

2D of marking effects



3D of marking effects

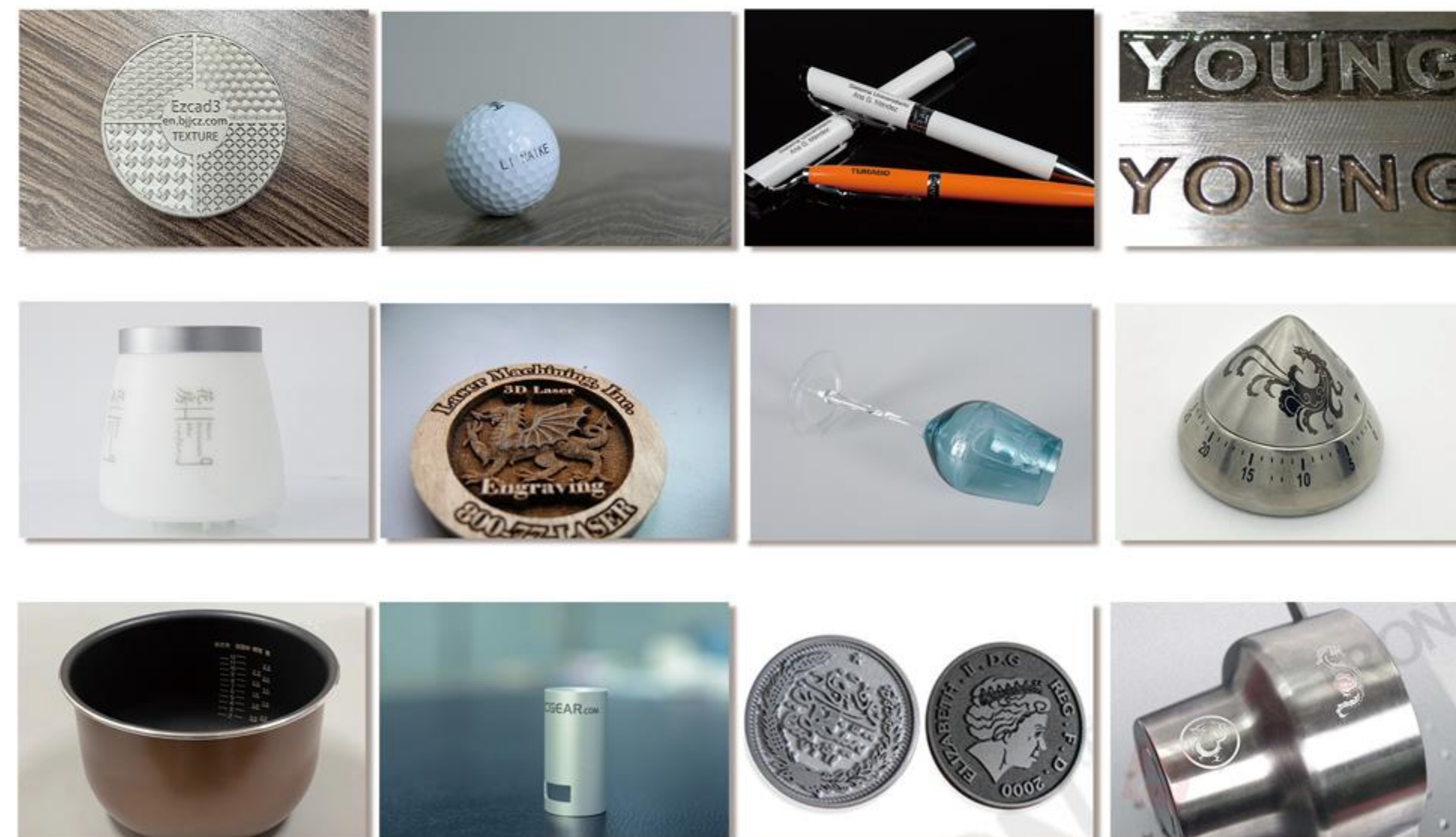


Working Principle

On the basis of traditional two-dimensional scanning galvanometers, a dynamic focusing system (usually composed of electric focusing mirrors or movable collimating mirrors) has been added. It can dynamically change the position of the laser focus on the Z-axis (depth direction) in real time while laser scanning moves (X/Y direction), thereby achieving laser processing (marking, engraving, welding, cleaning, etc.) on three-dimensional surfaces or different height planes.



Sample Display



*For more sample information, please contact our company for detailed understanding.

CCD VISION

LASER MARKING MACHINE

Laser marking machine with characteristics of automation, high efficiency, and high precision.



DLM-AC 【Fiber / UV / CO₂】
Size : 600*800*1340mm
Weight : 72KG

APPLICATION

Suitable for the electronics industry, hardware tool industry, automotive industry, medical device industry, food and daily chemical packaging industry, as well as various manufacturing industries. Skilled in handling products with irregular positions and shapes.



DLM-AC 【Fiber / UV / CO₂】 (Add X-axis)

Size : 680*780*1640mm

Weight : 99KG

Moving axis : (Length) 500mm
(Route) 400mm

*Optional other specifications



DLM-AC 【Fiber / UV / CO₂】 (Add assembly line)

Assembly line : 200*1500mm

Size : 600*800*1340mm

Weight : 102KG

Technical parameter	Fiber Laser	UV Laser	CO ₂ Laser
Type	DLM-ACF	DLM-CAU	DLM-CAC
Laser Wavelength	1064nm	355nm	10.6um
Laser Power	20W / 30W / 50W / 100W / 200W	5W / 10W / 15W	30W / 40W / 60W / 100W
Marking Range	175*175mm (Optional)	175*175mm (Optional)	175*175mm (Optional)
Marking Speed	≤7000mm/s	≤7000mm/s	≤7000mm/s
Minimum Character	0.2mm (View materials)	0.1mm (View materials)	0.4mm (View materials)
Standrad Line Width	0.06mm (View materials)	0.02mm (View materials)	0.1mm (View materials)
Software Language	CN/EN/DE/FR/ES/TC/JA/KO etc.		
File Format	PLT/DXF/AI/SVG/JPG/GIF/BMP/PNG		
Camera brand	HIKXISION		
Pixel	1200K		
Cooling Way	Air Cooling	Water Cooling	Air Cooling
Power Supply	110V-220V 50HZ-60HZ	110V-220V 50HZ-60HZ	110V-220V 50HZ-60HZ
Power Consumption	<0.55kW	<0.65kW	<0.65kW

Advantages

1. Reduce costs, save time and effort: Eliminate the need for customized fixtures and precision positioning trays, reducing hardware investment and maintenance costs; Realize fully automatic feeding, positioning, and marking on the assembly line, saving manual intervention;

2. High adaptability and efficiency: Capable of handling products with irregular shapes, uneven surfaces, or unstable positions; Can simultaneously cooperate with automated production lines, vibration discs, and XY axis platforms to significantly improve efficiency;

3. High-precision: Laser itself can make very fine and clear marks, combined with visual positioning, resulting in higher accuracy;

4. Intelligent integration: Compatible with text, serial numbers, QR codes, vector graphics, and other content, supports communication with MES/ERP systems, and has functions such as autofocus, distortion correction, and multi template management.

Working Principle

1. Visual positioning: Take photos of the workpiece using a high-precision CCD camera to identify preset reference points (Mark points) or contour features;

2. Coordinate conversion: The software system compares the actual position of the workpiece with the theoretical coordinates and automatically calculates the position offset (translation/rotation/scaling);

3. Dynamic correction: The laser path is adjusted in real-time based on offset data to ensure accurate marking at the target position.

Sample Display

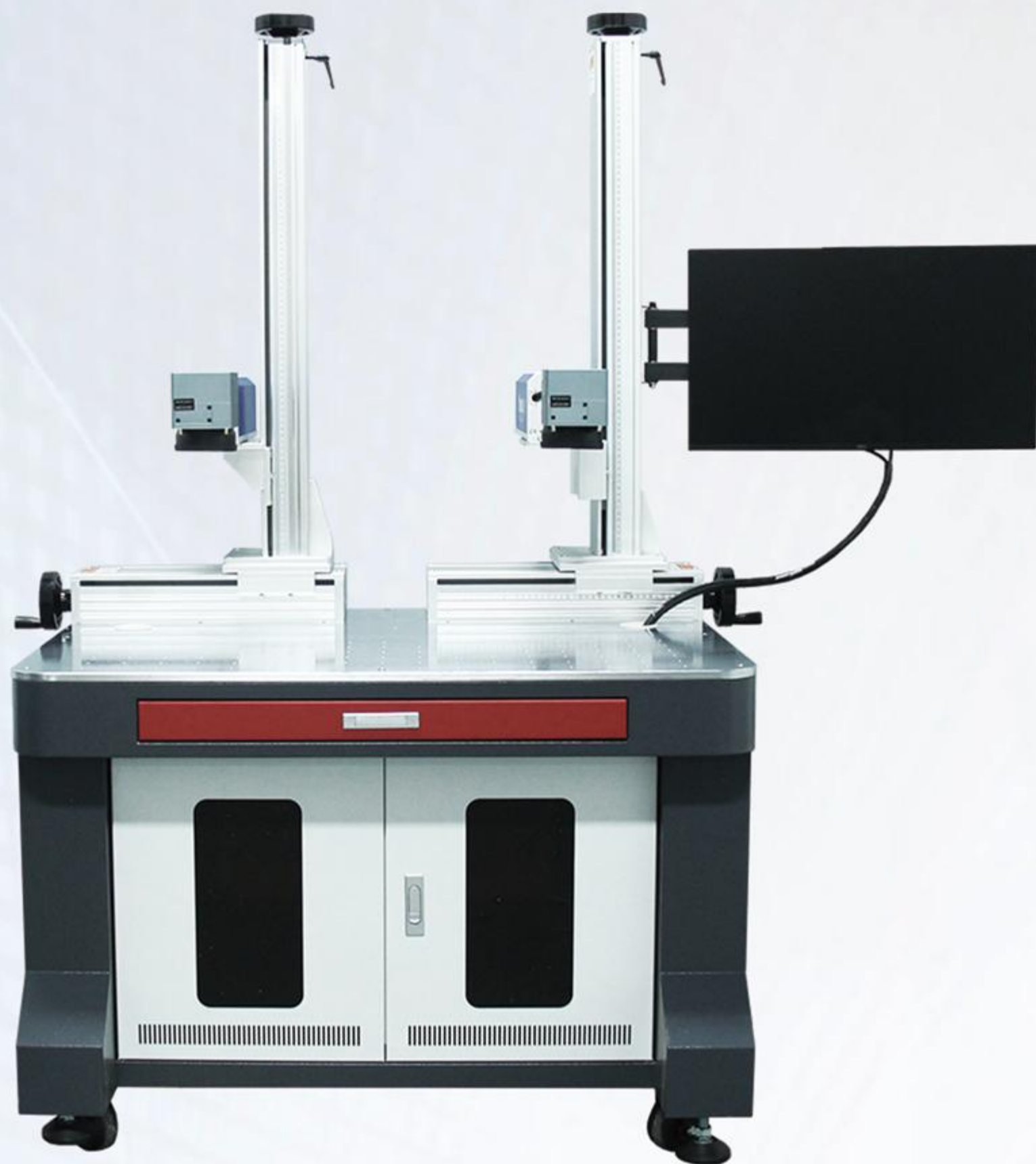


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NON-STANDARD

CUSTOMIZED LASER EQUIPMENT

We can provide a complete marking scheme design according to customer production needs



Multi Head Laser Marking

By using multiple laser heads for simultaneous marking, large format, multi angle, and multi position collaborative work can be achieved.



Line Tube Laser Marking Machine

Automatic marking can be achieved through transmission and winding devices combined with lasers, and can also be used in the cable, pipe, label and other product industries.



Closed Laser Marking Machine

Fully enclosed processing, high safety, no smoke or dust diffusion, high cleanliness of production environment, and high production safety standards.



Pipeline Laser Marking Machine

By using an assembly line to achieve orderly movement of products, it is possible to increase the loading and unloading devices and improve the efficiency of marking.



Chip IC Laser Marking Machine

Customized models for IC chip products, capable of marking materials such as loose pieces, coils, and rolls.

For more customized solutions and requirements, please contact our company!

Optional Accessory



Rotating fixture



Chuck rotating fixture



Elastic rotating fixture



Roller rotating fixture



One dimensional lifting platform



Two dimensional lifting platform



Three dimensional lifting platform



Rotary table



Pen machine rotary table



Fixed fixture



Work assembly line



XY Mobile Platform



Smoke purifier (With filter element)

*For more equipment and sample information, please contact our company for detailed information