

CO₂ Desktop

Laser Marking Machine

DLM-CD

Laser Power:

30W / 40W (Optional)

Marking Range:

110*110 / 140*140 / 175*175mm (Optional)



Machine Introduce

The DLM-CD carbon dioxide desktop laser marking machine features a compact size, low cost, easy operation and wide applicability. It is widely used in DIY, outdoor, office and various small-batch processing and customization scenarios.

High-quality marking effect: The laser beam generated by a carbon dioxide laser possesses strong energy, enabling deeper marking depths and clear marking effects.

High Speed: CO₂ laser marking machine has a high marking speed and is suitable for mass production.

Common Material Range:

Metal—Because CO₂ does not react with metal, it is often used to remove metal surface paint layer, spraying and other field;

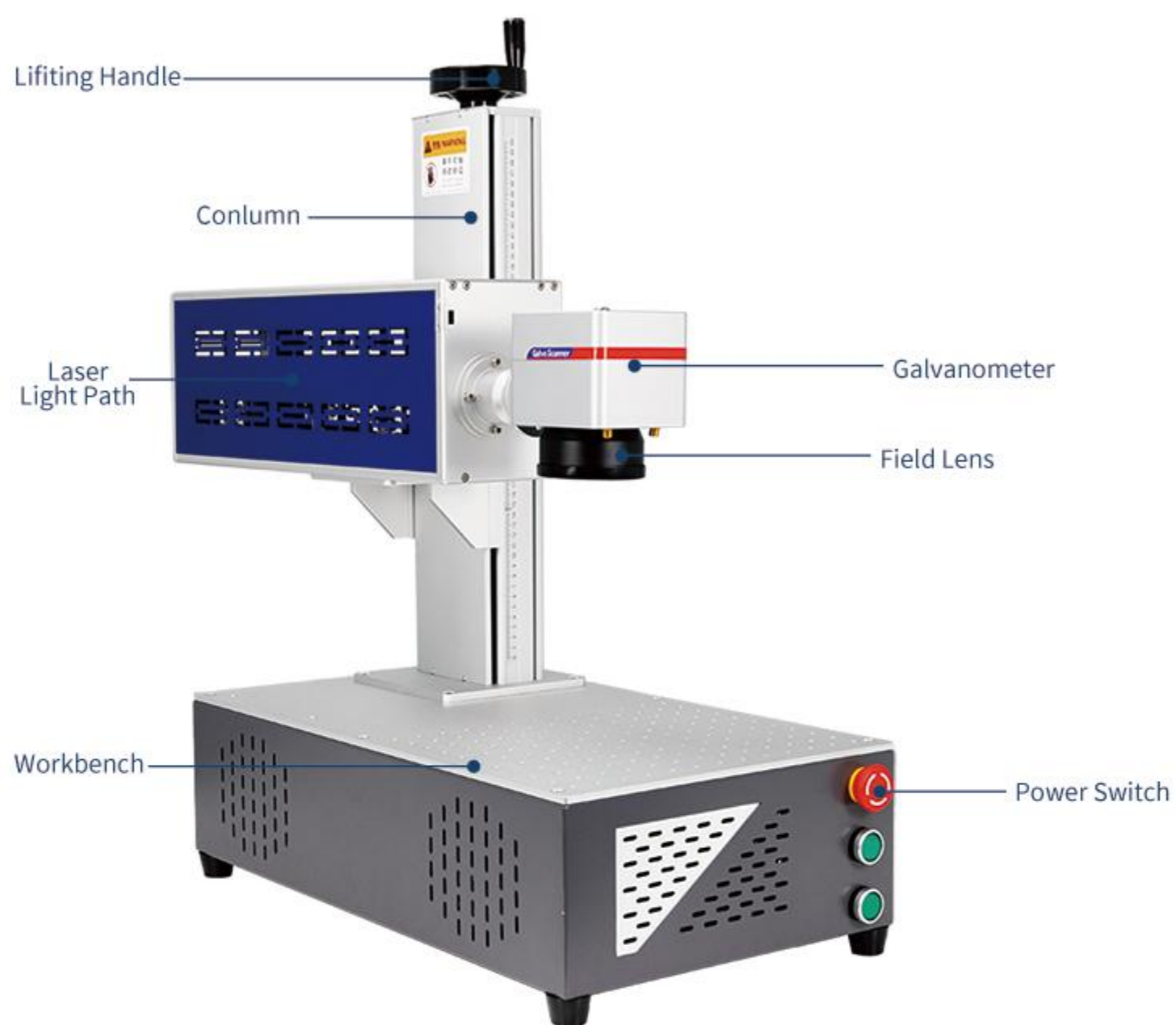
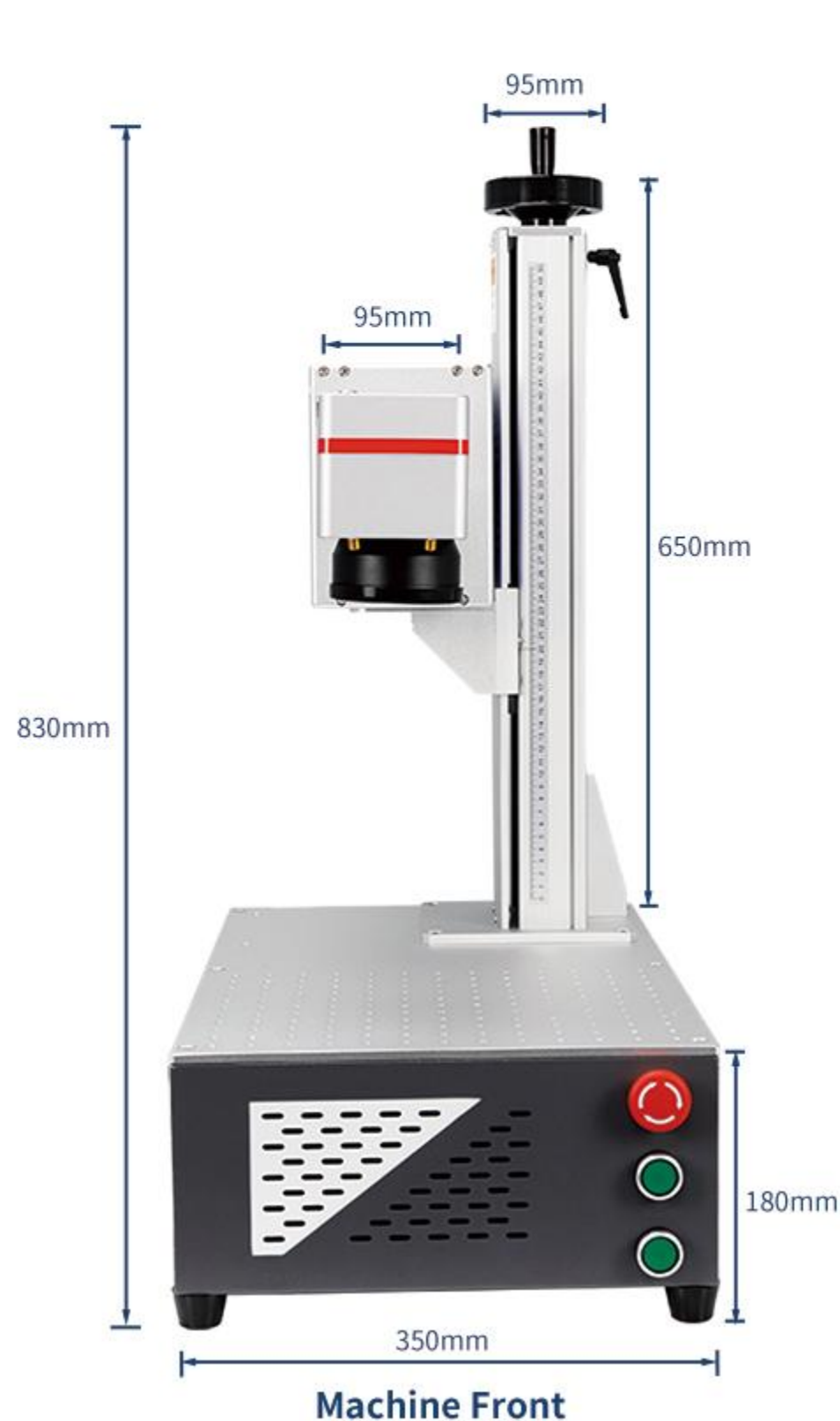
Non Metal—Materials such as wood, bamboo, paper, leather, fabric, rubber, PET, nylon, glass, ceramics, jade, acrylic, etc;

Other—The production date, code, serial number and other contents on the surface of bottled, paper and plastic packaging are rapidly marked.

Application areas:

It is widely applied to products in industries such as wood products, bamboo products, clothing packaging, footwear, packaging bags, films, food cans, glass bottles, beverage bottles, cables, pipes, electronic components, etc., as well as for marking various product numbers, barcodes, QR codes, trademarks, patterns and other information.

Machine Size



Component Introduction

Model	DLM-CD
Machine Size	350*600*830mm
Machine Weight	30.5kg
Packing Size	460*810*550mm
Packing Weight	63kg

Parameter Information

Model	DLM-CD			
Laser Parameter	Laser wavelength	10.6um		
	Output power	30W		40W
	Beam size	1.8±0.2mm		
	Repetition frequency	0~25kHz		
	Power adjustable range	10~100%		
Galvanometer	Marking speed	7000mm/s		
	Marking depth	≤2mm （View materials）		
	Repeatability accuracy	0.01mm		
	Min line width	0.1mm @ F=150mm （View materials）		
	Min character	0.4mm @ F=150mm		
Field Lens	Focal length	F=150mm	F=200mm	F=250mm
	Marking range	110*110mm	140*140mm	175*175mm
Control System	Control card	JCZ-LV7		
	Software system	Ezcad 2 （Compatible with LightBurn）		
	Software language	CN/EN/DE/FR/ES/TC/JA/KOR etc.		
	Support system	Windows		
	Support file format	PLT/DXF/AI/SVG JPG/GIF/BMP/PNG etc.		
Other	Cooling method	Air cooling		
	Power supply	110V-220V 50HZ-60HZ		
	Power comsumption	≤0.55kW·h		

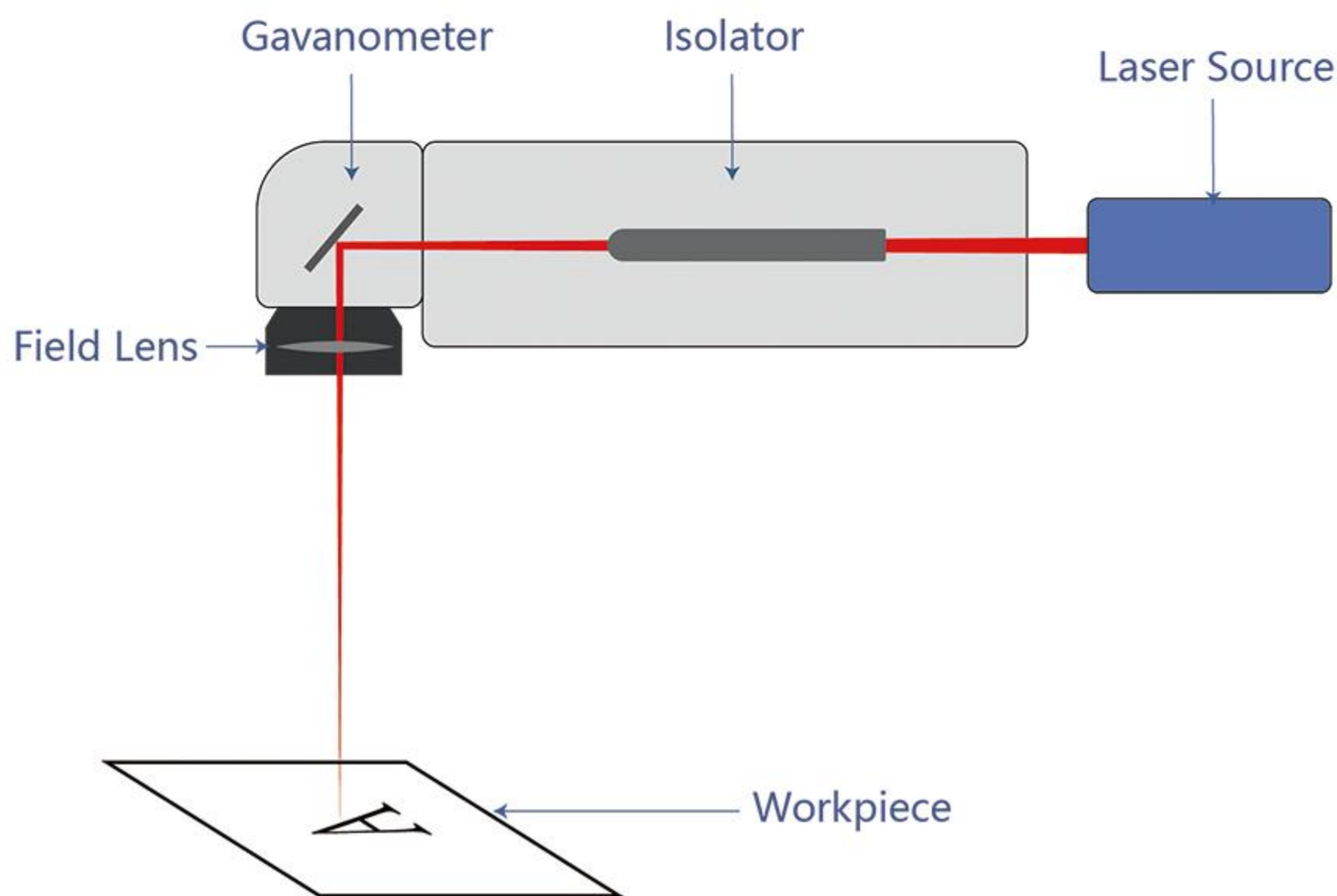
Sample



Core Component

Laser Source

The carbon dioxide laser marking machine generates an infrared laser beam of a certain wavelength through a carbon dioxide laser. The laser beam is focused on the surface of the object to be marked by a galvanometer scanning system, causing physical or chemical changes in the material and thus forming a permanent mark.



Common Brand



● CRD Laser



● DAVI Laser

Galvanometer

After computer sends instructions, the control card drives the high-speed deflection of the galvanometer, thereby changing the angle of the lens. The fixed laser beam is continuously reflected by the lens and finally focused by the field lens to form a controllable motion spot on the surface of the workpiece, which is combined into the desired pattern.



● Ordinary (Standard)



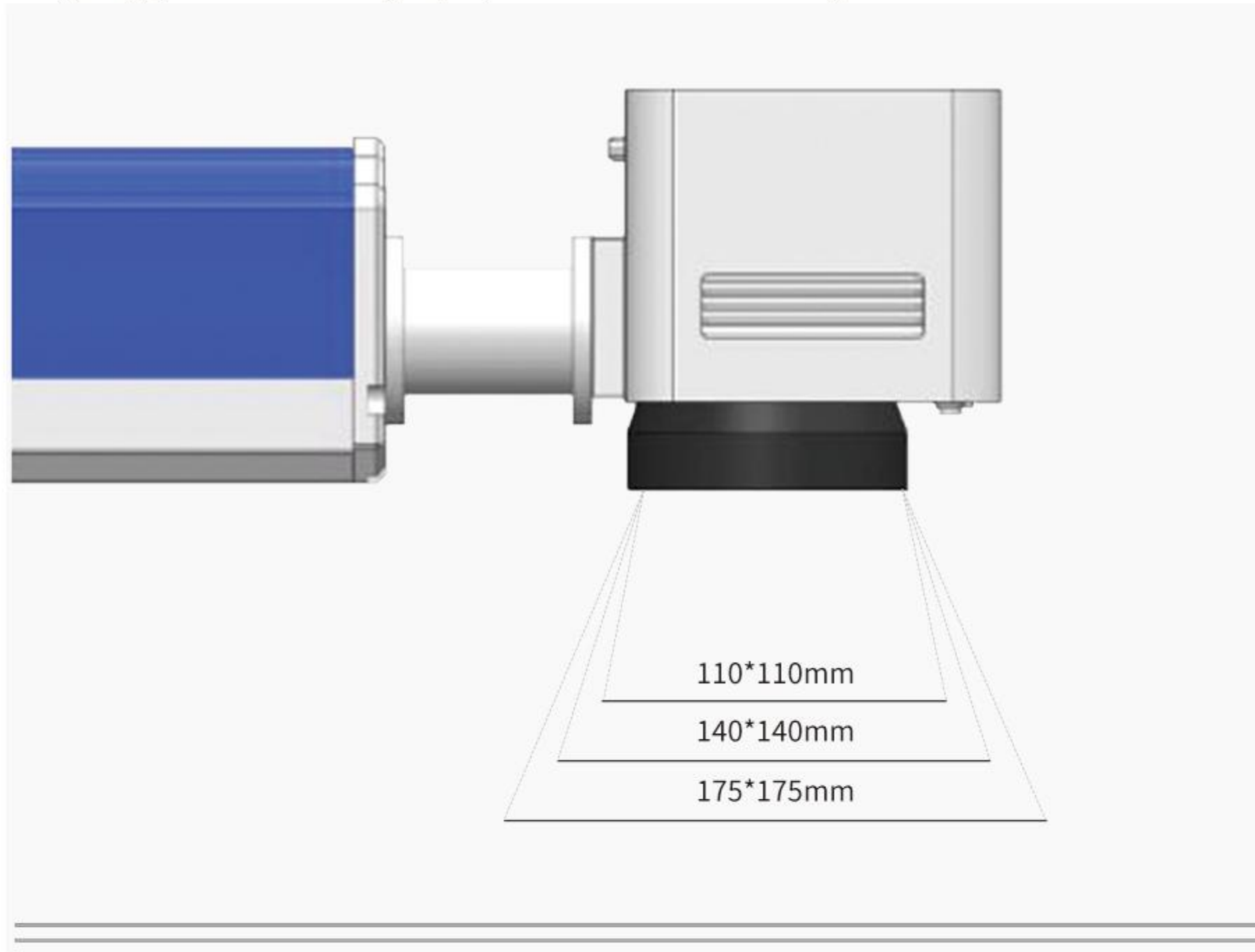
● High-speed (Optional)



● Dual Red Light (Optional)

Field Lens

The incident laser reflected by the galvanometer at different angles is focused on the same plane to ensure the accuracy of the process pattern throughout the entire area. Meanwhile, focal length of the field lens directly determines marking range. The shorter the focal length, the smaller the marking range, the smaller the light spot, and the clearer the marking effect.

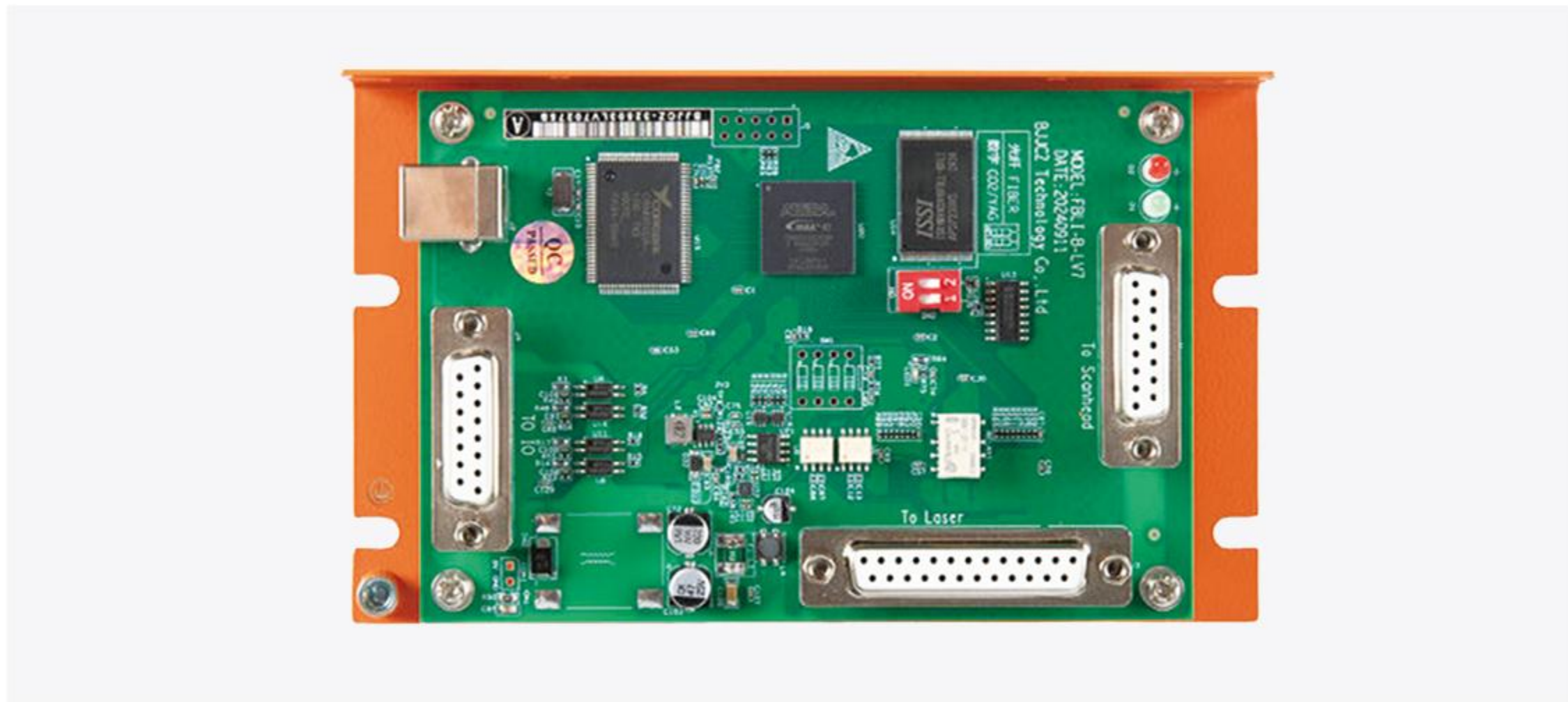


Comparison Table Of Field Lens Optional Range

Focal Length	F=150mm (Standard)	F=200mm	F=250mm
Scanning Range	110*110mm	140*140mm	175*175mm
Working Range	136.33mm	181.47mm	237mm

Control Card

JCZ Upgraded LV7 Control Card, compatible with multiple laser types and extended axis modes. Has strong anti-interference ability and can achieve precise marking control.

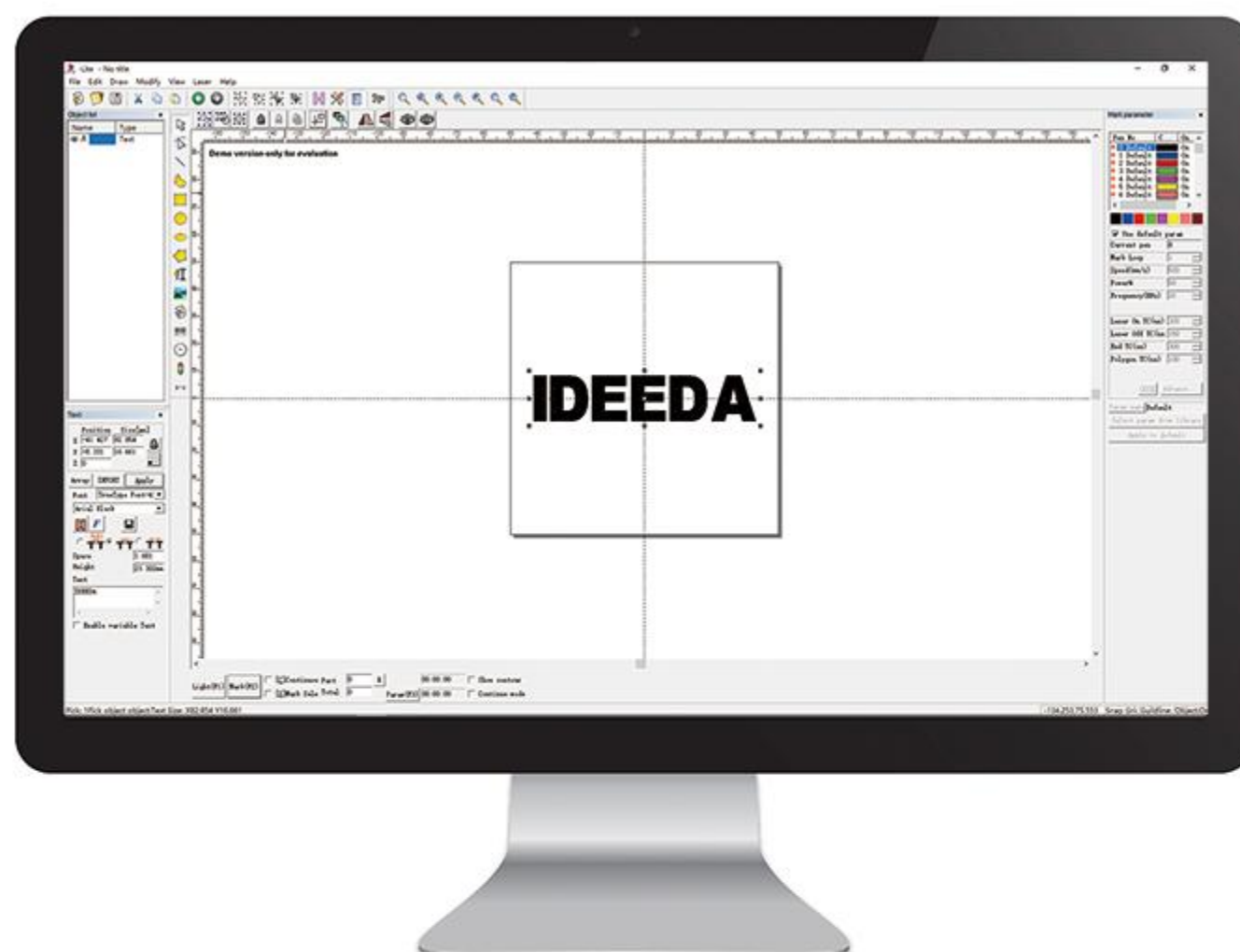


Ezcad2 (Compatible with LightBurn)

It adopts the Ezcad2 professional marking software, which is easy to operate and get started with.

Supports Windows system, compatible with LightBurn; Software support PLT/DXF/AI/SVG/JPG, GIF, BMP etc. file format;

Software supports text, characters, images, vector graphics, barcodes, QR codes and other contents, as well as regular code skipping contents such as serial numbers, dates and batch numbers.



B:76015 REG NO.255
BEST BEFORE:05/23/2025
MEG: 10/03/2022



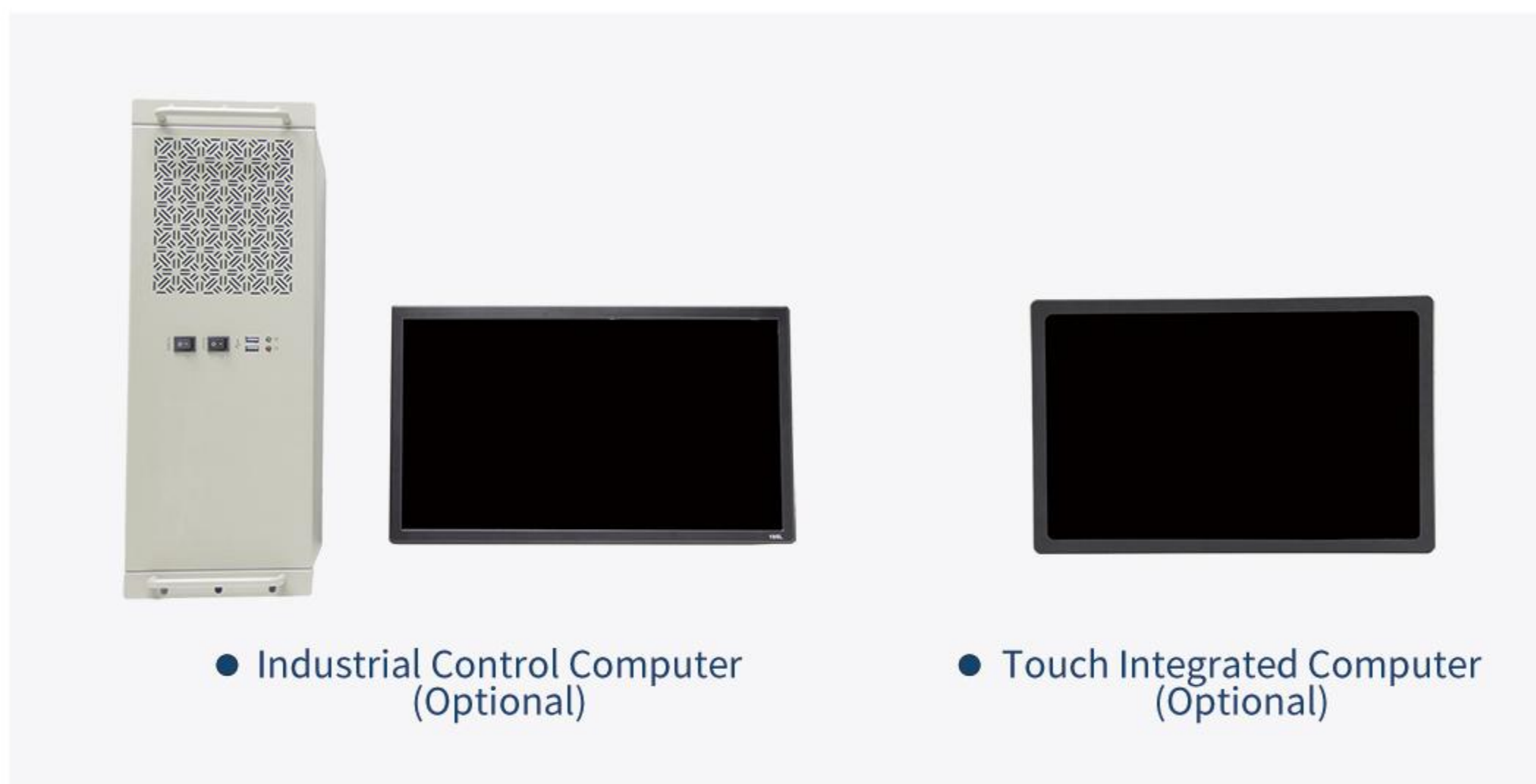
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With a 500mm itinerary column, other specifications of columns such as 800mm itinerary and electric can be selected according to the marking range and workpiece size requirements.



Computer

Optional industrial control computer, touch integrated computer, built-in Windows system, compatible with rich, support a variety of software, can be connected to a variety of expansion.



Accessories

Standard Accessories



Protective glasses



USB flash drive



Calibration paper



Focusing film



Foot switch



Ruler



Hexagonal wrench



Positioning bar



Data line



Power cord

Optional Accessories



Rotating fixture



Chuck rotating fixture



Elastic rotating fixture



Roller rotating fixture