

HIGH-SPEED LASER MARKING SCHEME

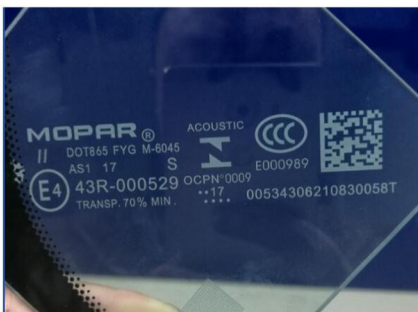
UV Laser Marking Machine

Model: GF20 / GF30 / GF50



APPLICATION

The flying UV laser marking machine can synchronize the production line speed for precise marking. Applications include: Plastics, Films, Glass, and application areas include food, beverages, electronics, pharmaceuticals, etc.



Glass



Plastics



Films

SPECIFICATIONS

UF03

UF05

UF10

Basic parameters

Laser power:	> 3 W	> 5 W	> 10 W
Laser type:	Pulsed solid-state laser		
Wavelength:	355 nm		
Cooling method:	Water cooling		

Marking characteristics

Production line speed:	0-120m/min (The specific speed is related to the product material and printing content)
Marking lines:	Unlimited within the marking range
Character height:	0.3mm to the maximum marking range
Marking type:	Text, Time, Date, Counter, Random code, Logo, Barcode, QR code, GS-1 code, Vector image
Font type:	TTF standard font library
Support graphics format:	PLT/BMP/DXF/HPGL/JPEG (The marking format only supports vector graphics: PLT/DXF)
Marking range*:	110x110mm
Focal length:	160mm
Working distance:	218mm
Operating system:	Linux
Support language*:	English, French, Korean, Arabic, Russian, Portuguese, Thai, Spanish, German, Persian, Turkish
Screen:	10 inch touch screen
Marking software:	<i>Star Dance</i> laser marking software
Processing method:	Synchronous speed, simulation speed, static marking
Scan head:	<i>Zbt</i> scanning head, can be positioned in various directions, including axial
Positioning method:	Manual adjustment of double red dot focus, Marking range scan positioning
Machine material:	Sandblasted and oxidized all-aluminum structure

Weight and dimensions

Machine weight:	Laser head part: 3W: 12kg, 5W/10W: 18kg, Flight stand part: 30kg, Water chillers part: 23kg
Size:	Laser head part: 3W: 640x160x180mm, 5W/10W: 640x160x206mm Flight stand part: 550x656x1455mm, Water chillers part: 580x290x470mm
Connection tube size:	Water cooling tube 2.0 m, Connecting the Water-Cooled Chassis and the Laser

Input / Output

Product speed monitoring:	Synchronizer or synchronization signal
Product detection input:	NPN / PNP / 12V sensor
Transfer port:	USB, RS232, Network Port
Signal input/output:	Laser ready signal, print signal, complete signal
Power requirements :	Single phase, 100-110V / 220-240V, 50 / 60Hz, < 800W

Environmental requirements

Ambient temperature:	15°C-45°C
Ambient humidity:	< 90%RH, No condensation, No vibration
Protection class:	Scan head part: IP54, Laser machine part: IP52

Optional *

Marking range:	150x150, 200x200, 300x300, 400x400, 500x500, 600x600 (Unit: mm, Focal length increases with range)
Support language:	Customizable local language
Safety protection:	Laser blocking cover(cabinet), Extended emergency stop button, Interlock switch
Signal :	Tri-color warning light, Buzzer, Relay
Smoke purify machine:	Air volume: 250m ³ /h, Purification efficiency: 0.3 μm99.99%

* All the above data will depend on the material and marked content

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