

F20 Series Ultraviolet Laser Marking Machine

Ultraviolet Laser Marking Machines of us are from JPT, the advanced design to resonator and laser control technology of this type product can let the laser get excellent beam quality and more narrow pulse width at high power operation; the laser with narrow pulse width has short interaction time with the processed material and small thermal effect and more beautiful marking effect, and it is also more suitable for fine marking on special materials, which is an incomparable advantage of other laser equipment.

High performance galvanometer scanning systems are from domestic first-line brand and the control software developed by us has advantages of fast speed, performance stable. This product has full Chinese interfaces and is compatible with files from AUTOCAD, CORELDRAW, PHOTOSHOP, CAXA and other software; do markings on Bar code, two-dimensional code, graphic text and other marking, support PLT, PCX, DXF, BMP and other file formats; Use SHX and TTF fonts directly. The system can automatically generate code to mark serial number, batch number, date and so on.



1.1 System Technical Parameters

DANA F20 Series UV Laser Marking Machine Specification	
Laser-type	Ultraviolet Laser Wavelength: 355nm, 30000hrs continuous working time
Power Output Class	5W/10W/15W/20W
Focal Length	220mm (Standard)
Maximum line marking speed	25m-30m/min (according to the marking content and requirements)
Marking parameters	
Marking Field	110mm × 110mm; Max: 500mm × 500mm
Marking lines	Set any line numbers within the valid marking range
Minimum Line Width	0.01mm
Production Line Speed	Depending on the marking content
Character Height	0.4-70mm
Typeface	Single line, dot matrix, True Type
Marking Content	Text, Graphics, Bar code, Two-dimensional code, Dynamic serial number, real-time clock, TXT file, RS232 communication data, etc..
Marking Angle	Any Angle, adjustable in 4 dimensions
Operation Interface	
Monitor	Industrial Touchscreen
Operating Language	Chinese, English and other Languages
Operating System	Linux
Input Method	Handwriting

1.2 Working Environment Requirements

Environment Requirements	
Protection Degree	≥IP54
Cooling	Water-Cooling
Operating Temperature	-5-45 degrees Celsius
Operating Humidity	80% RH, Non-Condensing
Power Supply	220V,1KVA

1.3 UV Laser Marking Machine Configuration List

No.	Description	Unit	Quantity	Brand	Notes
1	Laser	Set	1	JPT	American brand/Shenzhen, China
2	Galvanometer	Set	1	Beijing JCZ Technology CO., LTD	High-speed digital galvanometer
3	Field Lens	Set	1	Pixel Optics	China
4	Touching Computer	Set	1	DANA	Industrial Touchscreen
5	Controlling Software	Set	1	DANA	Obtained Computer Software Copyright Registration Certificate from NCAC, Certificate No.: Z No. 2373342
6	Case	Set	1	DANA	Baking paint for metal
7	Support	Set	1	DANA	Aluminum alloy material & Customized
8	Power Supply	Set	1	MEAN WELL/ HENGFU	Taiwan / Shanghai, China
9	Filter	Set	1	Schurter	Switzerland
10	Cooling Fan	Set	1	SUNON	Taiwan, China
11	Switch Button	Set	1	FUJI	Japan
12	Water Chiller	Set	1	TEYU/HUANLI	Guangzhou/Shandong