# F30 Series Fiber Laser Marking Machine

Fiber Laser Marking Machines of DANA mainly adopt lasers customized specially for DANA, a high-performance galvanometer scanning system, and the control software developed by us has the advantages of fast speed, stable performance; good laser mode, and long service life, which can continuously work up to 100,000 hours with high electro-optic conversion efficiency and low power consumption. The system is simple to operate and flexible to upgrade. This product has multiple USB 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, supports PLT, PCX, DXF, BMP, and other file formats; Use SHX and TTF fonts directly. The system can automatically generate code to mark serial numbers, batch numbers, date, etc.

## 1.1 System Technical Parameters

| DANA F30 Series Fiber Laser Marking Machine Specification | |
|---|---|
| Laser-type | Fiber Laser Wavelength：1064nm, 100000hrs continuous working time |
| Laser Power Class | 20W/30W/50W/100W |
| Focal Length | 210mm（Standard） |
| Maximum line marking speed | 10000mm/S |
| **Marking Parameters** | |
| Marking Field | 110mm×110mm; Max：500×500mm |
| Marking lines | Set any line numbers within the valid marking range |
| Minimum Line Width | 0.02mm |
| Production Line Speed | Max: 100m/min |
| Character Height | 0.2-70mm |
| Typeface | Single line, Dot matrix, True Type |
| Marking Content | Text, Graphics, Barcode, 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 |

## 1.2 Working Environment Requirements

| Environment Requirements | |
|---|---|
| Protection Degree | ≥IP54 |
| Cooling | Air Cooling |
| Operating Temperature | -5-45 degrees Celsius |
| Operating Humidity | 80% RH, Non-Condensing. |
| Power Supply | 220V, 0.6KVA |

## 1.3 Fiber Laser Marking Machine Configuration List

| No. | Description | Unit | Quantity | Brand | Notes |
|---|---|---|---|---|---|
| 1 | Laser | Set | 1 | IPG/ Raycus | Germany/ DANA Customized |
| 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 | Stainless steel |
| 7 | Support | Set | 1 | DANA | Aluminum alloy material & Customized |
| 8 | Controlling Power | 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 | Pcs | 1 | FUJI | Japan |