tidirefi
PRINTERS, INKS & SPARE PARTS

DATA SHEET

FIBER LASER MARKING MACHINE

KLFN20 | 30 | 50 | 100

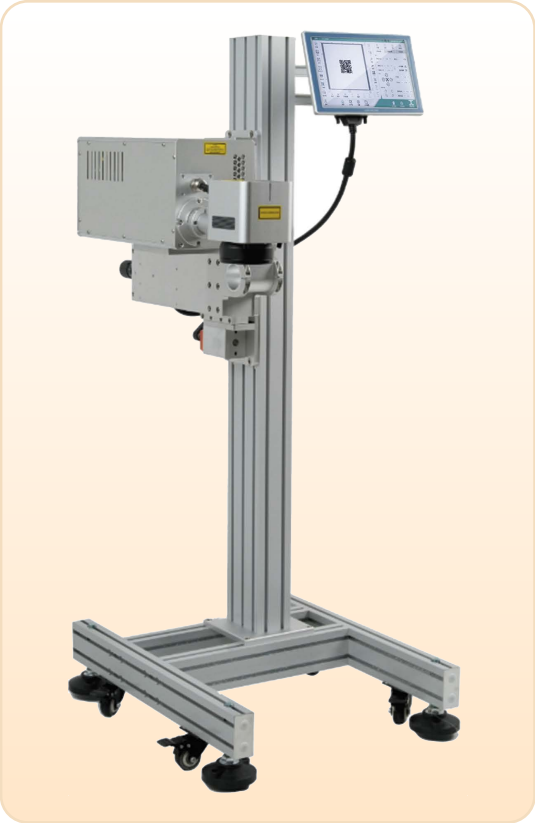
20-100 W
laser power

IP43
protection level

100,000 h
laser beam life

0.02 mm
min. line width

Compact size. Easy to handle. Great performance.



About the product

- **Compact size.**
- **Easy to handle.**
- **Great performance.**
- **No consumables.**
- **Maintenance free.**
- **Easy to operate.**
- **Widely used:** efficient, stable, flexible.
- **The only manufacturer to offer a 2-year extended warranty.**



10.1-inch color industrial touch screen



High precision 2D digital scanning system

Laser and marking

Model	KLFN20 / KLFN30 / KLFN50 / KLFN100
Laser Type	Fiber Laser
Wavelength	1064 nm
Laser Power	20 W / 30 W / 50 W / 100 W
Positioning Mode	Automatic focus with red light, positioning and preview
Marking Speed	Depends on the size and content of the text to be marked. Material complexity influences the result
Number of Lines	Unlimited

Laser and marking (cont.)

Character Height	0.6 mm maximum engraving range
Minimum Line Width	0.02 mm
Marking Surface Distance	0.01 mm
Coding Range	Standard (110 x 110), optional (50-300)
Galvanometer	High precision 2D digital scanning system
Laser Lifespan	100,000 hours of beam life

Software and control

Languages	Spanish, English, French, German, Italian, Japanese, and others
Typography	Windows environment for Spanish and English
File Format	JPG, BMP, PNG, DXF, DWG, PLT, AI
Barcode / QR Code	EAN8, EAN13, CODE 39, CODE 128, GS1-128

Software and control (cont.)

Controller	10.1-inch color industrial touch screen
Operating System	Embedded secure Linux operating system
Production Line Speed	Controlled with or without encoder with phase A and B
User Interface	Photoelectric signal, encoder signal, alarm signal, I/O (NPN, PNP, switch-type signal), RS232 communication, multiple inputs/outputs

Electrical, environment and sectors

Cooling System	Air cooling
IP Protection Level	IP43
Input Voltage	100 V - 240 V / 50-60 Hz
Total Power Consumption	≤ 600 W

Electrical, environment and sectors (cont.)

Laser Material	Aluminum alloy
Laser Controller Material	Aluminum alloy
Operating Temperature and Humidity	External temperature 0℃ - 45℃, humidity ≤ 95%; No condensation; No vibration
Main Sectors That Require Laser Printers	Metal sector, sanitary and medical sector, cosmetic sector, machinery manufacturers, watchmakers, auto parts, electronic hardware, and others with high-quality marking requirements

Dimensions and weight

Host (Length x Width x Height)	585 mm x 160 mm x 189 mm
Dimensions (L x W x H)	790 mm x 380 mm x 310 mm
Gross Weight	18 kg
Support Dimensions (L x W x H)	1390 mm x 480 mm x 275 mm
Gross Weight (support)	30 kg

Widely used



Plastic



Aluminum



Wood



Leather



Crystal



Metal