tidirefi
PRINTERS, INKS & SPARE PARTS

DATA SHEET

CO2 LASER MARKING MACHINE

KLCN30 | KLCN60

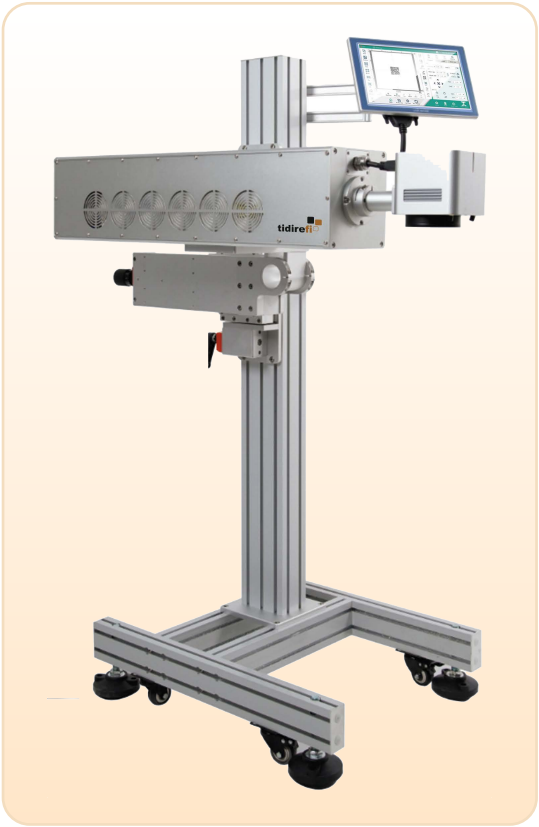
30 W / 60 W
laser power

IP43
protection level

20,000 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

Laser and marking

Model	KLCN30 / KLCN60
Laser Type	CO2 Laser
Wavelength	1064 nm
Laser Power	30 W / 60 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	20,000 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 / ≤ 1500 W

Electrical, environment and sectors (cont.)

Laser Material	Aluminum alloy
Laser Controller Material	Aluminum alloy
Operating Temperature and Humidity	External temperature 0ºC - 45ºC, humidity ≤ 95%; No condensation; No vibration
Main Sectors That Require Laser Printers	Healthcare and medical sector, cosmetic sector, packaging and general packaging, ceramics, rubber, PVC, PPC, furniture, leather goods, non-metallic materials, food and beverage packaging, labels, etc.

Dimensions and weight

Host (Length x Width x Height)	671 mm x 140 mm x 179 mm / 933 mm x 160 mm x 169 mm
Dimensions (L x W x H)	900 mm x 390 mm x 320 mm / 1220 mm x 370 mm x 320 mm
Gross Weight	21.75 kg / 28.5 kg
Support Dimensions (L x W x H)	1390 mm x 480 mm x 275 mm
Gross Weight (support)	30 kg

Widely used



Crystal



Plastic



Leather



Cosmetic packaging



Electronic product