

CO₂ Laser Marking System DIKAI DC Series



The new DC Series CO₂ laser marking systems adopt a new intelligent vector control algorithm, which greatly improves the marking speed. DC Series CO₂ lasers has smaller size, lower maintenance, no consumables and provides permanent high-quality coding. Permanent and high contrast marking to ensure product can be tracking, anti-counterfeiting and anti-channelization.

Marking Performance

- * Faster marking speed, up to 1500 characters/s, 300m/min.
- * The new intelligent control algorithm provides high quality marking technology.
- * High performance processors, low power consumption.



Simple Operation

- * Control the laser through a range easy-to-use interfaces, reducing the risk of product rework and recalls.
- * Innovative interface is easy to learn and easy to understand, more convenient and fast operation.
- * Red light locating is standard equipped.
- * One bottom on/off.



Premium Advantage

- * Cancel the supply unit into compact independent design, can be better integrated into various application with smallest fiber laser marking head on the market.
- * Lasers with different powers outputs meet all requirements from different industries.
- * Unlimited fonts, graphics and bar code applications.
- * New intelligent control algorithm, providing high quality drawing technology.

More Stability

- * 24/7 hours operation, MTBF: 50000 hours.
- * Automatically jump to the running mode after start up, no manual operation is required.
- * Operating environments: 5~45°C.
- * IP65 rating – ready for harsh production environments.



CO₂ Laser Marking System

DIKAI DC Series

Laser Type

- * Carbon dioxide laser $\lambda=9.3\mu\text{m}$, $10.3\mu\text{m}$, $10.6\mu\text{m}$.
- * MTBF \geq 50,000 hours

Model	DC130	DC140	DC160	DC130i	DC150i
Power	30W	40W	60W	30W	50W
Characters/S	1200	1300	1500	1200	1500
Speed M/Min *	200	230	300	200	300

Printing Features

- * Characters Height: 0.8mm to allowable area
- * Number of Lines: Limited only by character height and allowable print area
- * Marking area :50*50mm, 70*70mm, 110*110mm, 140*140mm, 175*175mm, 210*210mm, 300*300mm, 400*400mm
- * Focal Lens: 86mm, 136mm, 195mm, 237mm, 284mm, 465mm

MA (mm)	70	110	140	175	210	300	400
FL (mm)	86	136	195	237	284	365	492

Marking Data

- * Serial number, text, date, time, fonts, etc.
- * Multi - language support, user - defined fonts, counter, shift code
- * Codes Support: Barcode, QR-code, Code128, Code 39, Data-Matrix Code,
- * Document Type: BMP/DXF/HPGL/JPEG
- * Graphic Element: Points, Linear arc, rectangle, polygon, ellipse, circle

Operation Interface

- * 10.1inch touch screen, QWERTY or AZERTY virtual keyboard, quick icon wizard operations, online help

Communication Interface

- * Rs-232, Ethernet (10/100 Mbit), USB port, SD card
- * I/O: PN/PNP/24V – detector
- * Speed Detection: Encoder or synchronizing signal
- * Input Signal: Start, stop, interlock
- * Output Signal: Status indication, cooling device control, machine remote control

Other Characteristics

- * Outlooking: Stainless steel support structure, anodized alumina
- * Power: 100-240V AC,47-63Hz,750W
- * Cooling system: Air cooling
- * Operation Environment: 5-45 °C ,10%-90%RH, non-condensing
- * Ip Rating: IP55

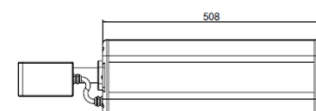
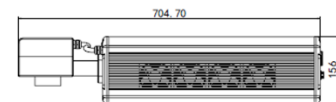
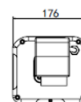
Optional

- * Network and remote-control software (TCP/IP)
- * Ethernet remote PC operation
- * User - defined fonts

Accessory

- * Fume extractor
- * Complete standard bracket
- * Encoder & Photocell
- * Alarm

- * The quantity of characters printed each second and production line speed depends on the surface material and marking content.



DIKAI

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