DK® DIKAI

DFR-20/30 Fiber Laser

DFR-20/30 Fiber Laser is a compact size, lower maintenance, no consumables coding system and it provids permanent & high quality codings. The laser is using intelligent vector control algorithm, marking speed greatly improved. It can be commonly used in food, cosmetics and other industries to print high contrast and permanently message & logo on hard plastic, metal and other materials. The identification will be cleaner than CO2 laser marking on the non-metal applications. It is very suitable for the mark on films of flexible packaging.

High Speed, High Quality, High Reliability

◆ Faster marking speed, up to 1000 CPS

◆ New intelligent control algorithm, high quality scratching technology

◆ Enhanced anti-EMC design, can ensure stable operation in harsh environment

◆ 24 hours working

Permanent Identification

◆ Almost unlimited font, graphics and bar code applications

◆ Permanent identification, reliable anti-counterfeiting string selection

Easy Integration

◆ Compact independent design, can be better integrated into the existing production line

◆ Small size, can adapt to a variety of installation space

User Friendly Low Maintenance No Consumables

◆ Innovative interactive way is easy to learn & understand, more convenient and fast operation

◆ High efficiency cooling design to achieve low maintenance and high life，

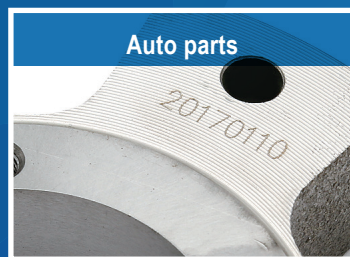◆ MTBF up to 100,000 hours

◆ No consumable, saving the use cost

DIKAI

Specification:

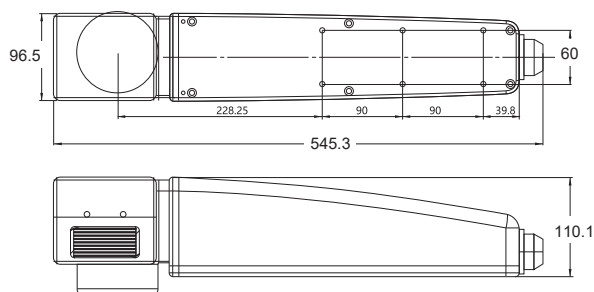| Model	DFR-20	DFR-30
Laser Type	Adjustable pulsed fiber laser,λ=1064nm, MTBF 100,000 hours	
Laser Power	20W	30W
Characteristic		
CPS	700	1000
Production Speed	120 M/Min	200 M/Min
Lines	No Limited within marking area	
Character Height	0.8mm ~ No Limited within marking area	
Font	26 Fonts，Multi - language support, support user - defined font	
Machine Readable Code	Code128, Code 39, Data-Matrix Code, QR Code	
Logo/Symbol	BMP/DXF/HPGL/JPEG	
Circular Elements	Point, Linear arc, Rectangle, Polygon, Ellipse, Circle	
Variable Data	Serial Number, Text, Date, Time, Counter, Shift Code	
Marking Area	50x50mm, 70x70mm, 110x110mm, 140x140mm, 175x175mm, 210x210mm	
Focal Distance	63mm, 100mm, 163mm, 210mm, 254mm, 330mm,	
UI	10.1 inch Color Touch Screen, QWERTY or AZERTY Virtual Keyboard, Quick Icon Wizard Operations, Online Help, multi-Language，Support Ethernet remote PC operation and networking。	
Material	Stainless Steel + Anodized Alumina Construction	
Input/Output		
Sensor	NPN/PNP/24V-Sensor	
Speed Detection	Encoder or synchronization signal	
Signal Input	Start, stop, interlock	
Signal Output	Operating state indication, cooling device control, machine remote control	
Communication	RS-232, Ethernet（10/100Mbit），USB	
Facilities Condition		
Power Supply	90-264V AC，47-63Hz，800W	
Cooling System	air cooling	
Operating Environment	-6-45℃，10%-90%RH，No condensation	
IP Rating	IP55，IP65 Optional	
Options	Network and remote control software (TCP/IP), USB Backup Storage Kit, Support Kit, Smoke Absorption Purifier	

Marking Samples:

Food

Cosmetic

Extrusion

Auto parts

Application:

Dimensions of Prinhead mm

96.5
60
228.25
90
90
39.8
545.3
110.1

Dimensions of Controller mm

180
300
420