



## DLF SERIES Fiber Laser Marking Machine

This series is our economical fiber laser marking machine, stable performance and lower cost. This laser is using intelligent vector control algorithm, marking speed is greatly improved. The laser is a compact size, lower maintenance, no consumables coding system and it provides high quality coding. With optimized marking font library, this laser can be commonly used in food, cosmetics and other industries to print high contrast and permanent message & logo on hard plastic (PE/PP), flexible packaging materials, metal and other materials to ensure the traceability of products. The identification of fiber laser will be clearer than CO2 laser marking on the non-metal applications.



### High Stability

- New intelligent control algorithm for high quality marking effect.
- Enhanced anti-electromagnetic interference design to ensure the stable running in a harsh environment.
- 24 hours continuous working.



### Easy Integration

- Compact independent design, can be better integrated into the existing production line.
- Small size, can adapt to a variety of installation space.
- Innovative interactive way is easy to learn & understand, more convenient and fast operation.
- Multiple interfaces can connect and interact to other machines and smoke extractor.



### High Efficiency

- Faster marking speed, up to 1000 pcs per second.
- Almost unlimited font, graphics and bar code applications



### Cost Effective

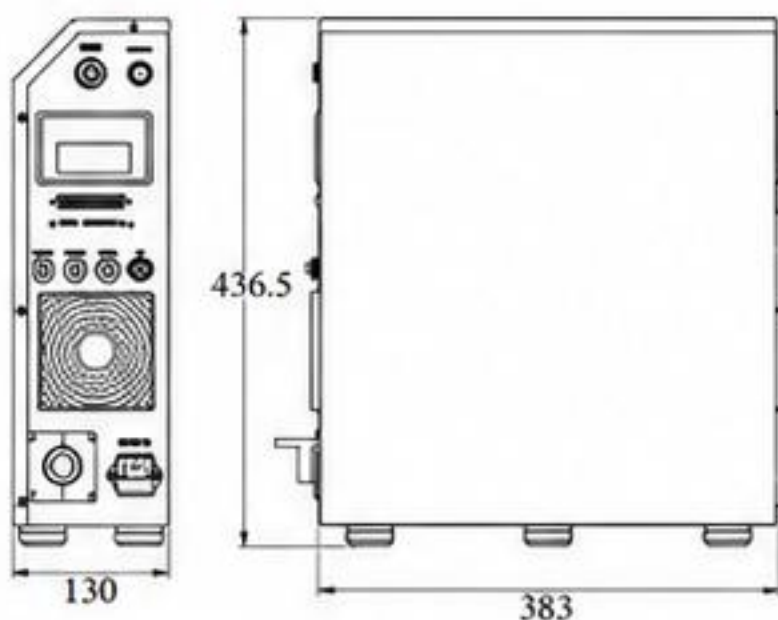
- High efficiency air cooling design to achieve low maintenance and long lifetime.
- MTBF is up to 100,000 hours.
- No consumable, saving the use cost.
- Permanent identification, reliable anti-counterfeiting string selection.



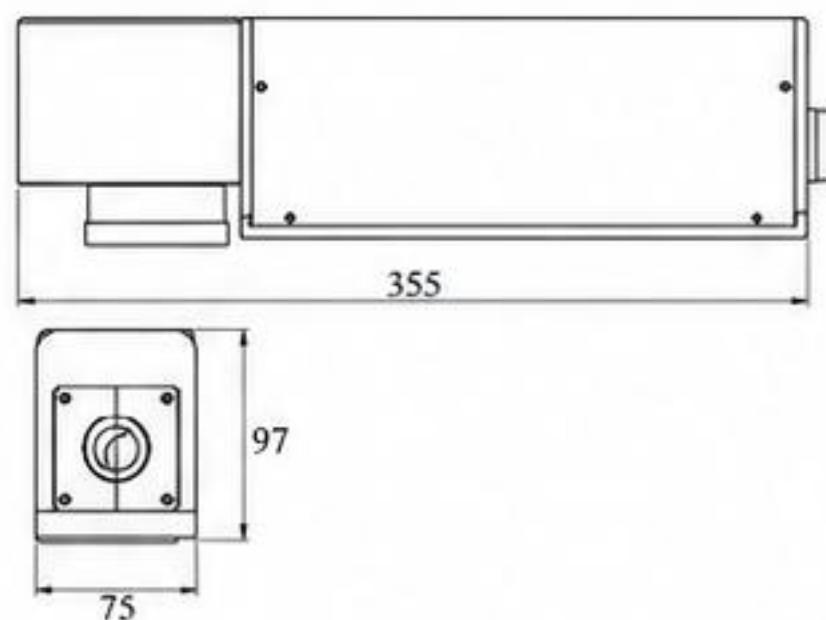
## Technical Parameter

		DLF200e	DLF300e
Applications:		Soft packaging film, PP, metal, etc.	
Marking Method:		XY axis scanning simultaneously	
Marking Mode	Flying Mark	150m/minute	200m/minute
	Static Mark	Multiple products can be marked simultaneously	
Marking Laser	Type	Fiber Laser	
	Wavelength	1064 nm	
	Output	20 W	30 W
Guiding Laser		red light guiding	
Marking area/distance (mm)		70×70/107, 110×110/187, 150×150/245, 175×175/272, 200×200/324, 250×250/414, 300×300/465	
Scanning Speed		≤8000 mm/s	
Software controller		Linux system, 10 inch touch screen	
Character Type	Fonts	JSF, Truo Typo, DMF	
	Bar code	Code39/Code25/EAN-13/Code128 etc	
	QR code	PDF147/QRCODE/DATAMATRIX	
	Image	DXF/PLT vector diagram input/output	
Marking Status		running, ready, fault status	
Character Size		0.1 mm-Maximum marking area	
Input/output		2 way input/3 way output, customizable	
Interface		SD card interdace/USB2.0/communication interface	
Laser Installation Direction		any direction	
Cooling Way		Air cooling	
Power Supply		50-60Hz; 220V, optional110V	
Power Consumption		200 W	300 W
Working Temperature		0-40 ℃	
Working Humidity		10 % ~ 90 % no condensation	
IP Rating		IP54	
Dimension		Controller: 383 mm×130 mm×437 mm, Laser: 355 mm×75 mm×97 mm	

Dimension (mm)



Controller

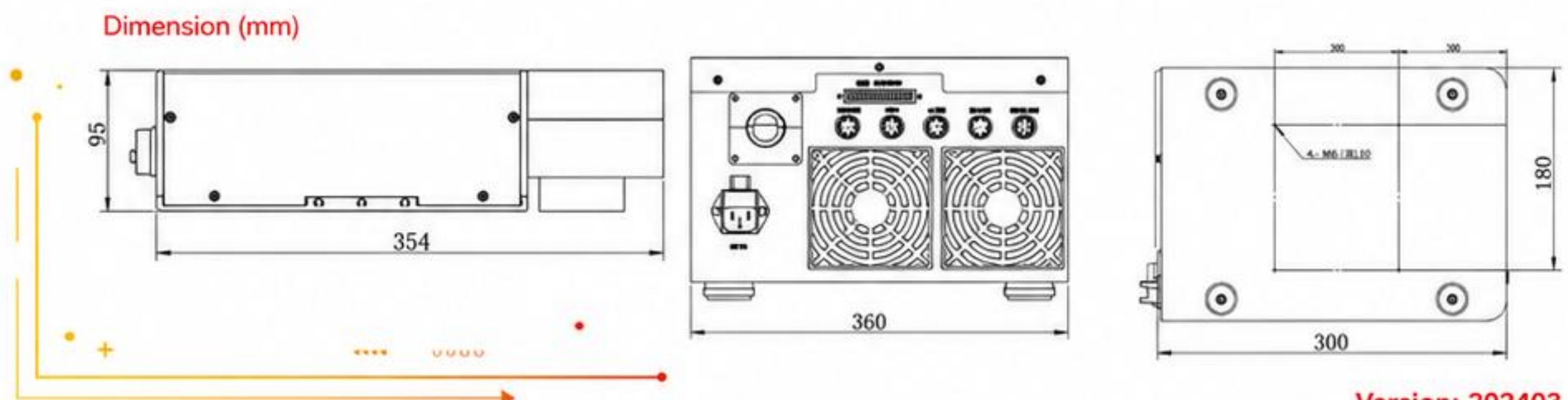


Laser

## Technical Parameter

		DLF200	DLF300	DLF500
Application		Soft-packaging, PP, Metal, etc.		
Scan Mode		X & Y axial simultaneous scan		
Marking Mode	Flying Mark	120 m/min	200 m/min	250 m/min
	Static Mark	Multiple products can be marked simultaneously		
Marking Laser	Type	Fiber Laser		
	Wavelength	1064 nm		
	Output	20 W	30 W	50 W
Guide Laser		Red light positioning		
Marking Area/Focal Distance (mm)		70*70/107, 110*110/187, 150*150/245, 175*175/272, 200*200/324, 250*250/414, 300*300/465, etc.		
Scan Speed		4000 mm/s, 12000 mm/s optional.		
Software Controller		Linux system, 10-inch touch screen		
Character Type	Fonts	Single/Double font, Dot-matrix font		
	Bar Code	Code39/Code25/EAN-13/Code128, etc		
	QR Code	PDF147/QR CODE/DATAMATRIX		
	Graphic	DXF/PLT format vector image input/output		
Marking Condition	Marking Status	Operation, Ready, Error status		
	Character Size	0.1 mm-Max. marking area		
Input/Output		Two-way input/Three-way Output, can be customized.		
Connection		SD card/USB 2.0/Communication interface		
Installation Direction		Arbitrary direction		
Cooling		Air cooling		
Power & Temp.	Power Supply	100-220 V AC, 50-60 Hz		
	Power	300 W		
	Temp.	0-40 °C		
	Humidity	10%-90% (non-condensation)		
IP Rate		IP54, IP65 optional		
Dimension (mm)		Laser body: 354×79×95; Controller Screen: 305×207×56; Controller box: 450×300×180;		

Note: Marking speed depends on packaging material and print content.





## Technical Parameter

### DLF1000

Application	Soft-packaging, PP, Metal, etc.	
Scan Mode	X & Y axial simultaneous scan	
Marking Laser	Type	Fiber laser generator
	Wavelength	1064 nm
	Output	100 W
Guide Laser	Red light positioning	
Marking Area/Focal Distance (mm)	70×70/107, 110×110/187, 150×150/245, 175×175/272, 200×200/324, 250×250/414, 300×300/465	
Scan Speed	10000 mm/s	
Software Control	Linux system, 10-inch touch screen	
Character Type	Fonts	Single/Double font, Dot-matrix font
	Bar Code	Code39/Code25/EAN-13/Code128, etc.
	QR Code	PDF147/QRCODE/DATAMATRIX
	Graphic	DXF/PLT format vector image input/output
Marking Status	Operation, Ready, Error status	
Character Size	0.1 mm-Max. marking area	
Input/Output	Two-way input/Three-way output, can be customized.	
Connection	SD card/USB 2.0/Communication interface	
Installation Direction	Arbitrary direction	
Cooling	Air cooling	
Power Supply	110/220 V; 50–60 Hz	
Power	1000 W	
Temp.	0-40 °C	
Humidity	10 % ~ 90 %, non-condensation	
IP Rate	IP54	
Dimension	Controller 400×440×180 mm; Laser printer: 418×93×110 mm	

### Dimension (mm)

