GCC LaserPro LFC II Professional Workstation

Design with your safety and convenience in mind

Key Benefits

➢ Class 2 safety and MD (machine directive) certified for Industrial professions who care operators safety during laser processing

➢ Wide range of configurations for automation and applications

➢ Removable side panels for line integration

➢ Ideal for large objects or batch marking

➢ Easy setup and operation

➢ Sturdy and rigid steel chassis to meet industrial requirement

➢ Compatible with all GCC LaserPro StellarMark C & I series laser markers

Product Features

➢ Easy Setup
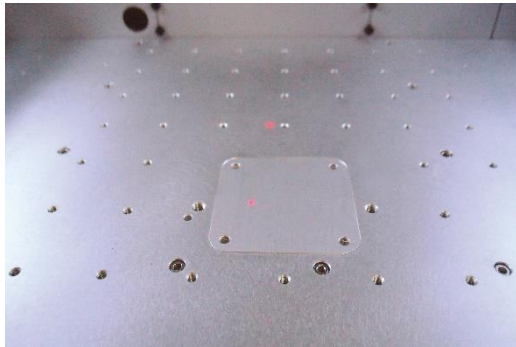
✓ **700x400mm Standard Table**

Standard table with matrix M6 circular slots for fixture mounting, working objects setup is more than easy.
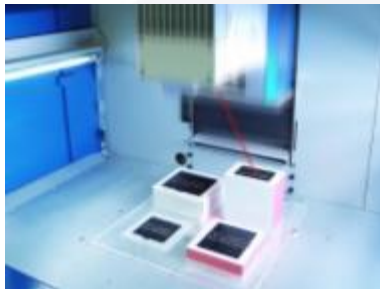

✓ **Electronic Z Axis**

Electronically controlled Z up and down buttons make it easy to fine tune the focus.

Product Features

> **Flexibility**

✓ **Pass-through Side Panels**

Removable side doors allows integrating with conveyor and Mark On Fly (optional) for continuous production with 420 x 290 x ∞ mm (WxDxL)

✓ **MultiFOCUS**

MultiFOCUS function allows user to set multiple focus distances setting at once according to the object height and Z-axis will automatically adjust correctly so users do not need to set focal distance several times.

✓ **Automation Add-ons**

Optional rotary table to increase throughput for production demand.

Product Features

➢ User Friendly Operation

✓ **Internal illuminanted Light**

LED illuminates the working space for clear view of work in process.

✓ **Automatic Safety Door**

Automatically controlled front door open and close to secure safety Operation

✓ **Clean Work Area**

Integrated vacuum pipe for extraction particles created during laser processing.

Product Features

➢ Safety Protection

✓ **Emergency Stop**

Big red button on the right of machine allows operators to stop the laser and AC power immediately to provide highly safety operation.

✓ **Dual Start Button**

Advanced secure protection by simultaneously pushing the Dual Start buttons to fire laser.

✓ **External Signal Indicators**

The three color indicator shows the current status of the machine with easy visibility and it ideal for the factory working environment.

Product Features

➢ Safety Protection

✓ **Key Switch**

Key Switch manages different authority levels between Service Mode and Operator Mode to restrict unauthorized access to the production setups.

*Service Mode will allow laser firing when door open to allow parameter test and setup

✓ **Protection Window**

Large protection window for easy working process monitoring while secure operation safety.

Product Features

➤ **Safety Certification**

✓ **FDA CDRH Class I Safety**

Protect users from laser radiation while operation

✓ **CE & MD certification**

GCC LaserPro LFC Workstation complies with the essential safety requirement set out in the European Directives.

✓ **ROHS compliant**

Protect the green environment, GCC LaserPro LFC Workstation is manufactured in compliance with the Restriction of Hazardous Substances Directive, and Pb free policy.
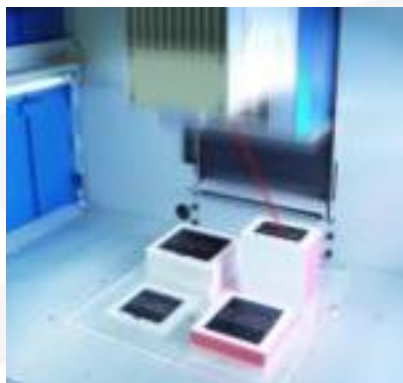
Optional Items

There are several add-ons for LFC workstation to facilitate the production efficiency and expand its versatility.

Rotary Table

MultiFOCUS

Rotary Attachment

Screen Frame Module

Max. 300x300mm
work area
2 stop

Max. 300x300mm
work area
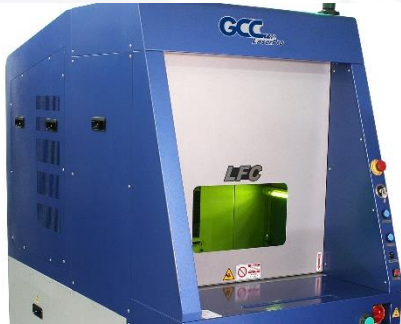
Max. object
external diameter
81mm

Difference between LFC and LFC II

	LFC	LFC II
Appearance Color	Light blue and silver	Blue and gray
Rotary table station	2 or 4 station	Only 2 station
Rotary Table field upgrade	No	Yes
Anti-pinch door	No	Yes
Automatic door	Single stage sliding door	2 stage sliding door (Save space and faster than single sliding door)

Product Spec

Model No.		LFC II
Available Laser Marker		CIIA / CIIP / IFII Series
Scan Lens	CO2	70 x 70mm, 140 x 140mm, 200 x 200mm, 300 x 300mm
	Fiber	70 x 70mm, 110 x 110mm, 180 x 180mm
Front Door		Automatic door
Max. Loading		50 kg
Z-axis Travel		385mm
Safety Class		Class 1 (EN60825-1)
Software		G-Mark Basic / G-Mark Library
Operating System		Microsoft Windows XP / Vista(32/64 bit) / 7(32/64 bit) / 8(32/64 bit) (Desktop or Laptop PCs)
Interface		USB x 1, VGA x 1
Power Supply		AC Auto Switching 110 - 240 VAC, 50-60Hz / Single Phase
Power Comsumption		1650W
Operating Temprature		15°C ~35°C
Operating Humidity		10 ~ 80% Non condensing
Dimension		1585(L) x 852(W) x 1745(H) mm 1854(L) x 1192(W) x 2050(H) mm (with package)
N.W.		235 kg
G.W.		580 kg
Optional Item		Rotary Table (Ø 650mm, 2 or 4 stations)
		Screen Frame Module
		MultiFOCUS
		Air Extraction System

Maximum Work Piece Size

Standard Table

Max. work piece size					
Standard Table					
C-Series		Max. Work Piece Size			
Lens	Scan Area	Length	Width	Height	
10	10 x 10mm	720mm	320mm	525mm	
50	50 x 50mm			490mm	
70	70 x 70mm			460mm	
140	140 x 140mm			355mm	
200	200 x 200mm			265mm	
300	300 x 300mm			125mm	
IF-Series		Max. Work Piece Size			
Lens	Scan Area	Length	Width	Height	
70	70 x 70mm	720mm	320mm	420mm	
110	110x110mm			345mm	
180	180x180mm			185mm	

Maximum Work Piece Size

Rotary Table

W = 320mm
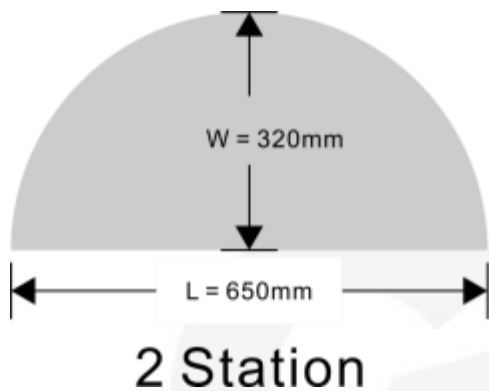
L = 650mm

2 Station

Rotary Table				
C-Series		Max. Work Piece Size		
Station	Scan Area	Length	Width	Height
2 Station	10 x 10mm	650mm	320mm	155mm
	50 x 50mm			
	70 x 70mm			
	140 x 140mm			
	200 x 200mm			
	300 x 300mm			
IF-Series		Max. Work Piece Size		
Station	Scan Area	Length	Width	Height
2 Station	70 x 70mm	850mm	320mm	155mm
	110x110mm			
	180x180mm			

StellarMark C Series Spec
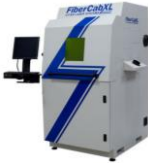
StellarMark C-series		CIIP 12	CIIA-Li 12	CIIA-HSII 12	CIIP 30V	CIIP 60Ti/60Ti93
Laser Source	Wavelength	10.6 μm				10.6 μm/9.3 μm
	Type	CO2, sealed-off				
	Output Power	12W			30W	60W
	Cooling	Air-cooled, no water chiller required				
Electrical Requirements	Power Supply	AC Auto Switching 115V / 230V, 50-60 Hz/ single phase				
	Power Consumption	740W			1240W	
Dimensions	Laser head	620 x 200 x 150 mm	285 x 184 x 560 mm	620 x 200 x 150 mm	620 x 200 x 150 mm	880 x 211 x 202 mm
	Control unit	500 x 420 x 192.4 mm				
Laser Marker Weight		15 kg	17.2 kg	15 kg	17 kg	30 kg
Control Unit Weight		17 kg			19 kg	
Max. Linear Marking Speed		3000 mm/s				
Max. Marking Speed		10000 mm/s				
Operating system		Microsoft Windows 2000 / XP / Vista(32/64 Bit) / 7(32/64 Bit) / 8(32/64 Bit) (Desktop or Laptop PCs)				
Safety		Class 4 (EN60825-1 Class 1 available with safety shield and LFC) 2006/42/EC Machinery Directive) 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive				

StellarMark I Series Spec

StellarMark I-series		IFII 20JFL	IFII 20SHS	IFII 30JFL	IFII 60JFL
Laser Source	Wavelength	1064 nm			
	Type	Yb-doped, MOPA			
	Output Power	20W	20W	30W	60W
	Beam Mode	TEM00			
	Beam Quality (M^2)	<1.3	<1.3	<1.3	<1.8
	Frequency	1-400 kHz	1-1000 kHz	1-400 kHz	1-400 kHz
	Waveform	Single	25	Single	Single
	Cooling	Air-cooled			
Electrical Requirements	Power Supply	110~220V, 50/60 Hz Max 15 Amp			
	Power Consumption	Max. 1650W			
Dimensions	Laser head	L 508 x W 168 x H 185 mm			
	Control unit	L 470 x W 360 x H 241 mm			
Laser Marker Weight		9 kg			
Control Unit Weight		25 kg			
Max. Linear Marking Speed		3,000 mm/s			
Max. Marking Speed		10,000 mm/s			
Operating system		Microsoft Windows 2000 / XP / Vista(32/64 Bit) / 7(32/64 Bit) / 8(32/64 Bit) (Desktop or Laptop PCs)			
Safety		Class 4 (EN60825-1 Class 1 available with safety shield and LFC) 2006/42/EC Machinery Directive) 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive			

Main Competitors

GCC LFC Professional Workstation owns the comprehensive standard functions amongst the competition.

Brand	Model	Photo	Rotary Table	Pass through	Automatic Door	Focus Tool	Auto Z axis	Emergency Button	Signal Light
GCC LaserPro	LFC II Workstation		Optional	✓	✓	Standard Pyramid rule	✓	✓	✓
Electrox	EMS 300		X	✓	✓	Optional	✓	✓	X
Tykma	WK Series		other model RT500/800	✓	X	X	✓	✓	X
Vytek	FiberCab Tower		Optional up to 48"(1219mm)	✓	X	Optional	✓	✓	X

Main Competitors

Brand	Model	Photo	Rotary Table	Pass through	Automatic Door	Focus Tool	Auto Z axis	Emergency Button	Signal Light
Cab	LSG100-FL		X	X	✓	X	✓	✓	✓
Foba	M2000-B		other model M2000-R	✓	✓	X	✓	✓	X
SISMA	BBS		other model SART	✓	✓	X	✓	✓	X
Trotec	LWS 780 ST		Optional	✓	✓	Optional	✓	✓	X
LASERBERG	PEGASO Compact		Optional	X	Optional	Optional	Optional	✓	X

LFC II Workstation Applications

LFC Workstation suitable for Automobile and auto parts industry, tool construction, machinery construction, medical technology, plastic processing industries, textile industries, Packaging industries, and more.

Barcode Marking	Disc Marking	Leather Marking	Fabric Marking	Metal Cutting
IC Marking	Package Marking		Keypad Marking	
3C Product	Jewelry Marking	Personal Product	Drill Marking	Leather Cutting	Paper Cutting