

GMF I302 (FIBER 2HEAD LASER MARKER)

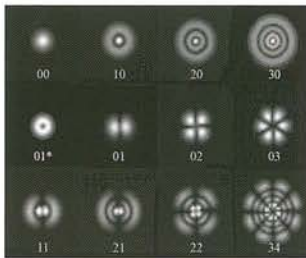


**" High Speed Marking & High Quality
by 1 LASER 2HEAD System
Innovative Tact Time Reduction "**

Laser Marking System, which reduced Tact time by using 2 Head System and operate very efficiently with 1 LASER.

This LASER solution is optimized for the semiconductor marking system, which contains high marking quality at the same time.

It is possible to choose between Single Head / Dual Head and also provides to mark different content of each during 2 HEAD usage.



*The above image is for reference

KEY FEATURES

- 30,000 hours without Maintenance
- Economic System without expendables
- Solid Scan Head
- Single computer & DSP controller
- Data compatibility with other systems
- Multi-Language
- Can use 1D/2D Barcode
- High Marking Quality
- Maintenance Free Design
- EMC Compound Optimization
- BIN Grade Marking
- MES Network Customizing

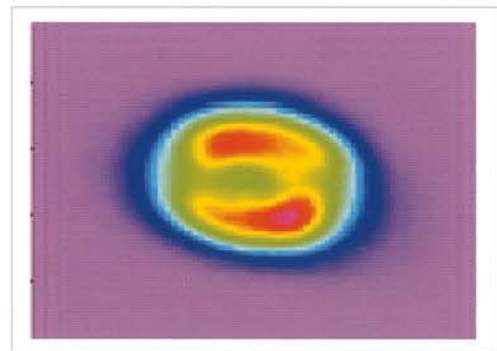
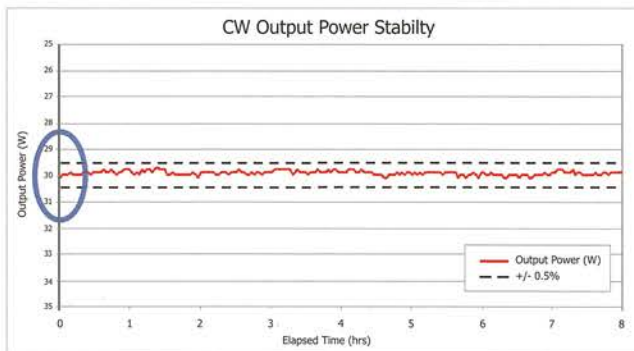
SPOT SIZE (Spot size according to Scan Mirror Size by Field Size)

F - Theta		Scan Mirror Size (mm) (Real Aperture Size)		
Field Size (mm)	EFL	8 (5,6)	10 (7)	15 (10,5)
320 * 180	254	92.0	73.6	49.0
353 * 213	346.3	65.8	52.6	39.0
246 * 246	409.9	77.9	62.3	46.0

• Aperture Ratio (%) is 70% • Spot Size Unit = um

• Real Aperture Size (mm) = Scan Mirror Size * Aperture Ratio

* Spot size is a calculation value as above, it should be changed by quality.



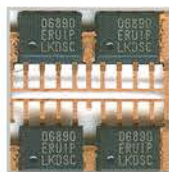
MARKING SAMPLES



Scissors



Keyboard



Package



Pincettes



BGA



PCB

Special feature of HARDRAM SYSTEM

1. Satisfies the various requests from consumers with self-designed H/W & S/W.
2. High resolution via original calibration technology.
3. Reduced marking time and high quality marking via marking data optimization feature.
4. Increased productivity via encoded on the fly marking.

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LASER SOLUTION FOR FPD & SEMICONDUCTOR

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LASER SPECIFICATIONS

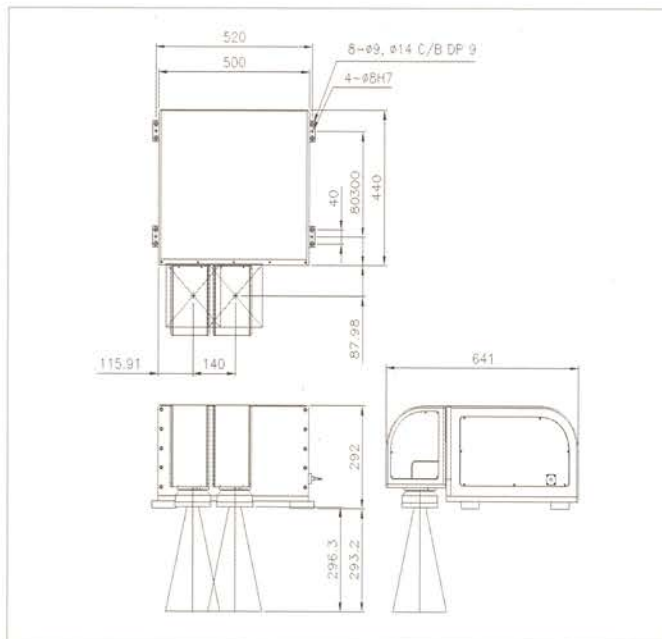
GMF Series(FIBER 2HEAD LASER MAKER)

MODEL	GMF -I302	
Wavelength	1064mm	
Beam Mode	TEM ₀₁ (M ² =3.5)	
Marking Scope	320×180mm	213mm×213
Working Distance	344.8mm	412.2mm
Marking Method	Galvanometer Scan	
Marking LASER (Maximum Output Power)	30W	
Guide LASER · Pointer	exist	
Spot Size	50um ~ 120um	
Scan speed	1500mm/sec, 1000char/sec	
Cooling Method	Air Cooling	
Supply Voltage	AC 110V, AC220V 50/60Hz, 6A	
On The Fly	support	
Operating Temperature	0℃ ~ 40℃	
Operating Humidity	Below 80%	

Controller

CPU	Intel / Dual core
RAM	512MB
HDD	80GB
OS	Windows XP

GMF DRAWING



SOFTWARE FUNCTIONS

- Marking order optimization
- Marking data simplification
- Encoded on the fly marking
- I/O Check Monitor
- I/O Simulation Function
- Counter Marking
- Serial Data Function
- LOT Marking
- Date Marking
- Logo Marking
- Support various files (e.g. PLT, DXF)
- Image (e.g. BMP, TIF) Marking
- Various Text Alignment (e.g. equal space, fan-shaped)
- Korean or Windows Fonts Marking
- Marking Preview
- Support Network or Remote Function
- Barcode (e.g. VERICODE, Data Matrix, CODE39, CODE128)
- BIN Grade Marking
- MES Network Customizing

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