

# FlexMarker Laser Marking System

PRODUCTION  
AUTOMATION



- High speed In-Line Laser Marking
- Medium Volume High Mix
- Modular Cell Structure
- Large Marking Area
- User Friendly HMI
- 10W-30W CO<sub>2</sub> Laser or YAG Laser
- PCB or Carrier Transport
- Fast PCB Exchange Time

**OPTTE**  
EXPERTS IN FACTORY AUTOMATION

# FlexMarker Laser Marking System

PCB Specification		
PCB Thickness minimum:	0.8 mm (0.03")	
PCB Thickness maximum:	4 mm (0.15")	
PCB Length:	50 - 460 mm (1.97 - 18.11")	
PCB Width:	50 - 510 mm (1.97 - 20.07")	
PCB Ratio:	0.8 (Length >= 0.8 x Width)	
PCB Top Clearance:	80 mm (3.15")	
PCB Bottom Clearance:	50 mm (1.97")	
PCB Weight:	2.5 kg (5.5 lbs)	
Technical Specification		
Positioning Accuracy:	± 0.1 mm (± 0.003")	
Laserpower Continuous Wave:	YAG Marker	10 W CO2 Marker
Puls Frequency:	max 60 kHz	n/a
Lens Focal Length:	typical 163 mm (6.4")	100 mm (4")
Field of View:	max 120 x 120 mm (4.7 x 4.7")	70 x 70 mm (2.7 x 2.7")
Field of Marking:	max 510 x 510 mm (20 x 20")	510 x 510 mm (20 x 20")
Spotsize 1/e2:	typical 60 μ	150 μ
Marking Speed:	typical 250	250
Machine Specification		
Transport Height:	950 mm ± 25 mm (37.4" ± 1") (SMEMA)	
PCB Exchange Time:	<4 sec	
PCB Edge Support:	2.5 - 5 mm (0.1 - 0.2") adjustable	optional carrier edge support 10 mm (0.4")
Transport Speed:	300 - 700 mm/sec (11.8 - 27.5"/sec)	
Transport Direction:	L->R, R->L	
Dimensions (L X D x H):	1,000 x 1,300 x 1,840 mm (40 x 52 x 72.4")	
Weight:	350 kg (771 lbs)	
Color frame / plating:	RAL 7035	
Standards:	CE, SMEMA, Laser Class 1	
Compressed Air:	6 bar - 20%, according to DIN ISO 8573 3.4.5 (5 ltr/min avg)	
Energy Requirements:	1 P 110V or 1 P 230 V - 1 kVA	
Options		
Vision system for test of laser marking		
1D/2D Reader		
Network interface to customer database		
125 μ spotsize		
Fume extraction system		
Fixed Transport (PCB or carrier)		
Fixed Transport with output buffer (PCB or carrier)		
30 W CO2 Laser		
Mix production		
Electrical width adjustment		
Automatic width adjustment		



## ■ IPTE N.V.

Geleenlaan 5  
3600 Genk  
Belgium  
Tel.: +32 (0)89 623 000  
Fax.: +32 (0)89 623 010  
email: info@ipte.com

## ■ IPTE SALES

Detailed information on our worldwide sales offices can be found on our website at [www.ipte.com](http://www.ipte.com)