

Laser System for PCB Depaneling_

DP10X0

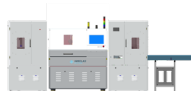
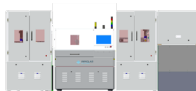


Benefits

- Advanced Laser Manufacturing Equipment
- Qualified for 24/7 Production
- Turn-Key Handling Solutions
- Rigid and Flexible PCB Material
- Efficient Material Utilization
- Customized MES integration

Specifications

Configurations

	DP1010	DP1020	DP1030	DP1040
				
Laser Type	Nanosecond	Nanosecond	Nanosecond	Nanosecond
Wavelength	355 nm / 532 nm	355 nm / 532 nm	355 nm / 532 nm	355 nm / 532 nm
Average Laser Power	up to 65 W	up to 65 W	up to 65 W	up to 65 W
Laser Power Measurement	Integrated Automatic	Integrated Automatic	Integrated Automatic	Integrated Automatic
Max. Panel Size Single Head	460 mm x 500 mm	320 mm x 500 mm	320 mm x 500 mm	320 mm x 500 mm
Max. Panel Size Dual Head	2x (230 mm x 320 mm)	2x (230 mm x 320 mm)	2x (230 mm x 320 mm)	2x (230 mm x 320 mm)
Accuracy	± 20 µm	± 20 µm	± 20 µm	± 20 µm
Vision System	5.1MP, 7 mm x 11 mm F.O.V.	5.1MP, 7 mm x 11 mm F.O.V.	5.1MP, 7 mm x 11 mm F.O.V.	5.1MP, 7 mm x 11 mm F.O.V.
Upstream Interface	SMEMA, HERMES	SMEMA, HERMES	SMEMA, HERMES	SMEMA, HERMES
Downstream Interface	SMEMA, HERMES	SMEMA, HERMES	SMEMA, HERMES, EtherCAT	SMEMA, HERMES
Workpiece Carrier Handling	Manual	Automatic	Automatic	Automatic
Workpiece Carrier Cleaning	Manual	Automatic	Automatic	Automatic
Output Finished Parts	Manual / Semi-Automatic	JEDEC Feeder	Customized Shuttle Feeder	Customized Tray Feeder
Machine Color	RAL 7035 ESD	RAL 7035 ESD	RAL 7035 ESD	RAL 7035 ESD

Options

- Dual Head Laser
- IR/Green or UV Picosecond Laser
- Dimensional AOI Unit
- Cleaning Unit
- NOK Part Drawer
- Integrated Barcode / DMC Reader
- Handheld Barcode / DMC Reader
- Laser Marking Barcode / DMC
- Offline Post Processor Software
- MES interface
- Other RAL ESD Machine Color

Utility Requirements

Power	400 VAC, 3P/N/PE, 60 Hz
Power consumption	5 kVA - 10 kVA
Fuses at customer site	32 A per phase, slow
Compressed Dry Air (CDA)	min. 6 bar / max. 8 bar
Cooling water supply	Min 12 l/min - max flow 20 l/min (20°C +/- 2 K)
Extraction system	Min. 500m³/h

Dimensions

DP1010	
Width x Depth x Height	1500 mm x 1500 mm x 1600 mm
Height with front door open	2000 mm
Weight	1200 kg
DP1020, DP1030, DP1040	
Width x Depth x Height	3750 - 4600 mm x 1800 mm x 1900 mm
Height with front door open	2000 mm
Weight	2000 kg - 3000 kg