



MEYER BURGER



PiXDRO LP50

Advanced Research Inkjet Printer

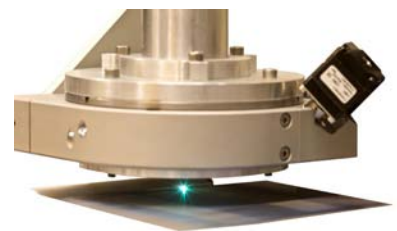
Revolutionary inkjet printing technology

- **High precision printing platform** suited for Research & Development of printing processes, pre- and post-processes, materials, and production processes
- **Overall system accuracy**, 5µm 3sigma
- **Easy, fast and accurate change of Print Head Assemblies** for numerous types of industrial print heads
- **High chemical resistant ink header tank** 1-8ml, easy to exchange and clean
- **Automatic print head functions:** capping (vacuum), purging and wiping
- **High flexibility** for jetting settings and print strategies
- **Integrated vision system** for drop view, print view and accurate alignment, including analysis and calibration software
- **Free programmable recipes** (script files)
- Single pass, multi pass and vector printing
- Aux connector, **free programmable**, enabling interfacing to external or integrated devices



Options

- Laser head assembly
- µPlasma head assembly
- UV LED pinning / curing array
- Robot interface
- Advanced drop analysis, easy characterization of ink and print head jetting performance
- Jetting station, enabling fast swap between active print heads and extending print head lifetime
- LP50 cabinet, convenient storage and a solid support for the LP50



Technology powered by



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System Description

The LP50 inkjet printer is an advanced R&D inkjet printer for evaluation and development of inkjet materials, processes and applications. Its compact design, high-flexibility, multi-functionality and ease of use make it a powerful tool, well suited for general laboratory usage. The intuitive Graphical User Interface supplies the operator with various advanced tools guiding him/her through the inkjet process.

The availability of numerous standard modules enables the user to easily configure/setup the system to his/her requirement. Since all these modules are embedded in the open PiXDRO system-architecture, easy scaling into a dedicated industrial system is possible.



Data sheet PiXDRO LP50

Equipment		
Substrate	- Table	210x300mm (DIN A4 size)
	- Conditioning	50°C standard and 90°C optional
	- Clamping	Vacuum clamping
System	- Accuracy	5µm 3sigma
	- Footprint	768x621x410mm without PC and monitor
	- Weight	90Kg
Head exchange time		< 3 minutes
Vision systems		Standard dropview and printview, optional advanced drop analysis
Maintenance functions		Jetting, vacuum capping, print head purge and wiping

Software		
Advanced drop analysis		Calculation of drop volume, speed and angle, plus automatized DOE's
PrintGen		Influence nozzle usage and printing sequence
Open source scripting		Free programmable recipes
Range of image formats		Over 120 file formats possible

Inkjet specifications		
Available print heads		Spectra, Konica Minolta, Trident, Xaar
Ink types		Solvent based (incl. nanoparticles, silver), water based (incl. KOH), acidic, hotmelt, UV curable
Feature sizes		Down to 5 - 20µm
Printing speed		X-axis, 200mm/s; Y-axis; 400mm/s

Technical data are subject to change / 05-2013