



MEYER BURGER

PiXDRO IP410

Advanced industrial inkjet printer

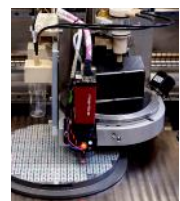
The PiXDRO IP410 is an advanced industrial inkjet printer for functional printing applications. It is designed for process development and (pilot-)production of inkjet processes and applications. The IP410 platform is an accurate, reliable and easy to operate printing system, suitable for applications that require state-of-the-art inkjet printing technology. The IP410 has a modular design and can be configured for a wide range of applications such as printed electronics, semiconductor, PCB, photovoltaics, OLEDs, bio-medical, etc.

Main advantages

- Compatible with solvent based (incl. nanoparticle), aqueous, hot melt and UV-curable inks
- Open architecture allows integration of new modules and control through user designed scripts
- High accuracy enables functional samples/products
- Excellent control over drop formation, drop placement and print strategy
- Easy, fast and accurate change over between print heads and inks
- Automatic print head maintenance functions (capping, purging, spitting, wiping)
- Integrated vision systems for droplet inspection, accurate alignment, post-print inspection
- Automatic ink supply and flush system
- Clean process environment

Various integrated commercially available industrial heads

- Fujifilm Dimatix: S-class, S-class Hotmelt, Dual S-class, SE/SX3, Q-class, DMC cartridge
- Konica Minolta: KM512, KM1024i with or without integrated UV curing
- XAAR: XAAR1002/1003 (with recirculating ink supply)
- OCE: OCE CrystalPoint

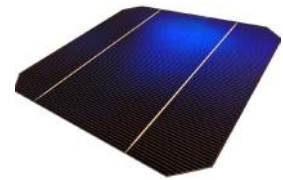
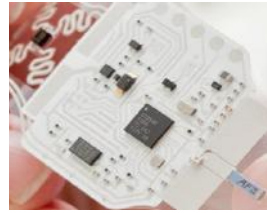
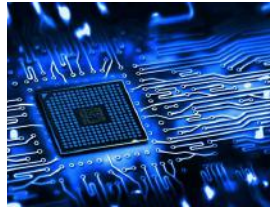


Wide range of options and add-ons

- Advanced drop analysis (ADA) for easy characterization of ink and print head jetting performance
- In-line and off-line UV pinning and curing
- Glovebox integration
- Jetting station, enabling fast swap between active print heads and extending print head lifetime
- Automatic substrate handling and inclusion in multi process tools



 PiXDRO



Technical data of the IP410 at a glance

Equipment	
Substrate	
- Table	415 x 530 mm
- Conditioning	Up to 90°C
- Clamping	Vacuum clamping
- Thickness	Max. 15 mm
System	
- Accuracy	< 25 µm (3σ), < 5 µm (3σ) repeatability
- Footprint	1720 x 1080 x 1990 mm
- Weight	Approx. 825 kg
- Power input	Single phase, 110-240 VAC, < 2 KVA, 50/60 Hz
5 axis motion	x, y z, rotation of print head (all servo controlled)
Exhaust utilities	35 - 750 m ³ /hr at 200 Pa backpressure
Head exchange time	< 2 minutes
Vision systems	Dropview, Printview, Advanced Drop Analysis (optional)
Maintenance	Spitting, Capping, Purging and Wiping

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

Inkjet specifications	
Material	Solvent based (incl. nano particle), aqueous, hotmelt and UV-curable inks
Viscosity range	1 - 20 cP
Nozzle range	1 - 1,000 nozzles
Drop volume range	1 - 100 pL
Feature sizes	Down to 20 µm
Printing speed	Max. 500 mm/s