



MEYER BURGER

PiXDRO IP410

Advanced industrial inkjet printer

The **PiXDRO IP410** is a **versatile inkjet printer** for functional printing applications, and is designed for **process engineering** and **manufacturing of series of products**. The IP410 platform is a multipurpose system that will allow you to work at the frontiers of inkjet printing technology. It can be employed for a wide range of applications such as **semiconductor packaging, PCB, printed electronics, photo voltaic, display** and **chemical machining**. Because of its open architecture, the IP410 can be **connected to automated product handlers** or other processing equipment.

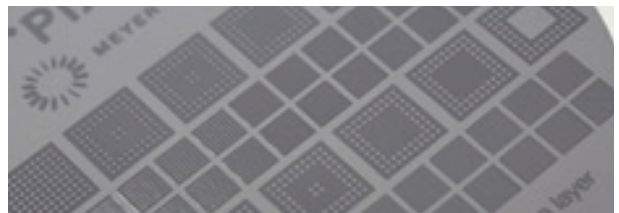
Key Advantages

- High precision inkjet printing
- Advanced metrology options
- Open and intuitive HMI architecture
- Fast exchange of printheads and inks
- Automated printhead maintenance



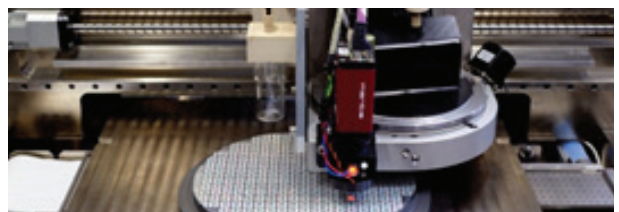
Main features

- Compatible with solvent based, aqueous, hot melt and UV-curable inks
- Vision systems for drop inspection, substrate alignment and print inspection
- Accurate 4-axis motion systems
- Large substrate chuck with vacuum clamping and heating
- Prepared for automated substrate handling



Choice of Industrial Printheads

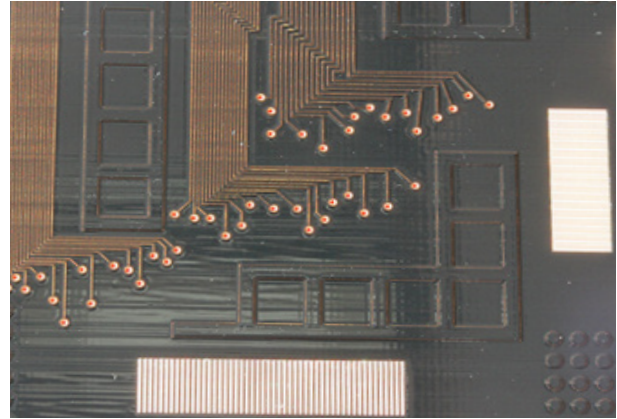
- Fujifilm Dimatix S-class, Sapphire, Emerald, Samba G3L, DMC
- Konica Minolta KM512, KM1024i
- Xaar 1003 series
- OCE CrystalPoint C29



PiXDRO

Options and enhancements

- Advanced Drop Analysis (ADA) for best ink jetting performance
- Automatic Print Optimization (APO) for best application results
- Substrate chuck cooling
- Dual printhead configuration
- Ink tank heating
- UV LED or NIR curing
- Laser source module
- Customized substrate holders
- JS20 printhead storage station
- Recirculating ink supply for nanoparticle inks
- Advanced Gerber file rasterizer
- Interfacing to customized and automated product handling



Technical Data

Maximum substrate size	415 x 530 mm
Max. substrate thickness	15 mm
Substrate chuck	Vacuum clamping; optional product specific chuck
Substrate temperature control	Heating up to 90 °C (optional cooling down to 4 °C)
Stage accuracy	+/- 25 µm (3σ)
Stage precision	+/- 5 µm (3σ)
Motion	X, Y, Z, Printhead rotation up to 90 degrees
Print speed	Up to 500 mm/s
Printheads	16 - 2048 nozzles; 1 - 80 pL droptime
Printhead exchange time	< 2 minutes, kinematic calibration
Printhead maintenance	Purging, spitting, capping, wiping
Vision systems	Drop view and print image view
Operation	Intuitive HMI; open source recipe scripting
Image formats	Bitmap, Gerber, postscript, PDF
Ink types	Solvent based, nanoparticle, aqueous, hotmelt, UV-curable
Ink viscosity	2 - 20 cP
Ink supply	15 mL header tank; optional bulk ink supply
Advanced metrology software (optional)	ADA and APO for optimizing drop formation and print results
Integrated post processing (optional)	UV or NIR curing
Footprint (w x d x h)	Approx. 1720 x 1080 x 1990 mm (excl. PC and monitor)
Weight	Approx. 825 kg