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

- Large substrate table and connectivity to automated product handling
- Fast and accurate exchange of printheads and inks
- Open architecture enables user defined and application specific functionalities
- Automated printhead maintenance (capping, purging, spitting, wiping)
- Easy transfer of process recipes to PiXDRO mass production printers

Main Features and Options

- Compatible with solvent based, aqueous, hot melt and UV-curable inks.
- Advanced Drop Analysis (ADA) for drop analysis and optimization.
- Integrated vision systems for droplet inspection, substrate alignment and print inspection.
- Substrate chuck with vacuum clamping, heating and cooling option.
- Customized product holders.
- Recirculating ink supply for nanoparticle inks.
- Integrated UV or NIR curing.
- Single and dual printheads.
- Interfacing to customized and automated product handling.
- Printhead storage station, with jetting function to avoid nozzle clogging.

Choice of Industrial Printheads

- Fujifilm Dimatix S-class, SE3/SX3, Sapphire, Emerald, DMC.
- Konica Minolta KM512, KM1024i.
- OCE CrystalPoint C29.

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
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 - 1024 nozzles; 1 - 80 pL dropsize
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 drop analysis (optional)	Automatic calculation of drop volume, speed and angle
Integrated post processing (optional)	UV pinning or curing
Footprint (w x d x h)	Approx. 1720 x 1080 x 1990 mm (excl. PC and monitor)
Weight	Approx. 825 kg

Meyer Burger (Netherlands) B.V., info-eindhoven@meyerburger.com, www.meyerburger.com