n.jet solar

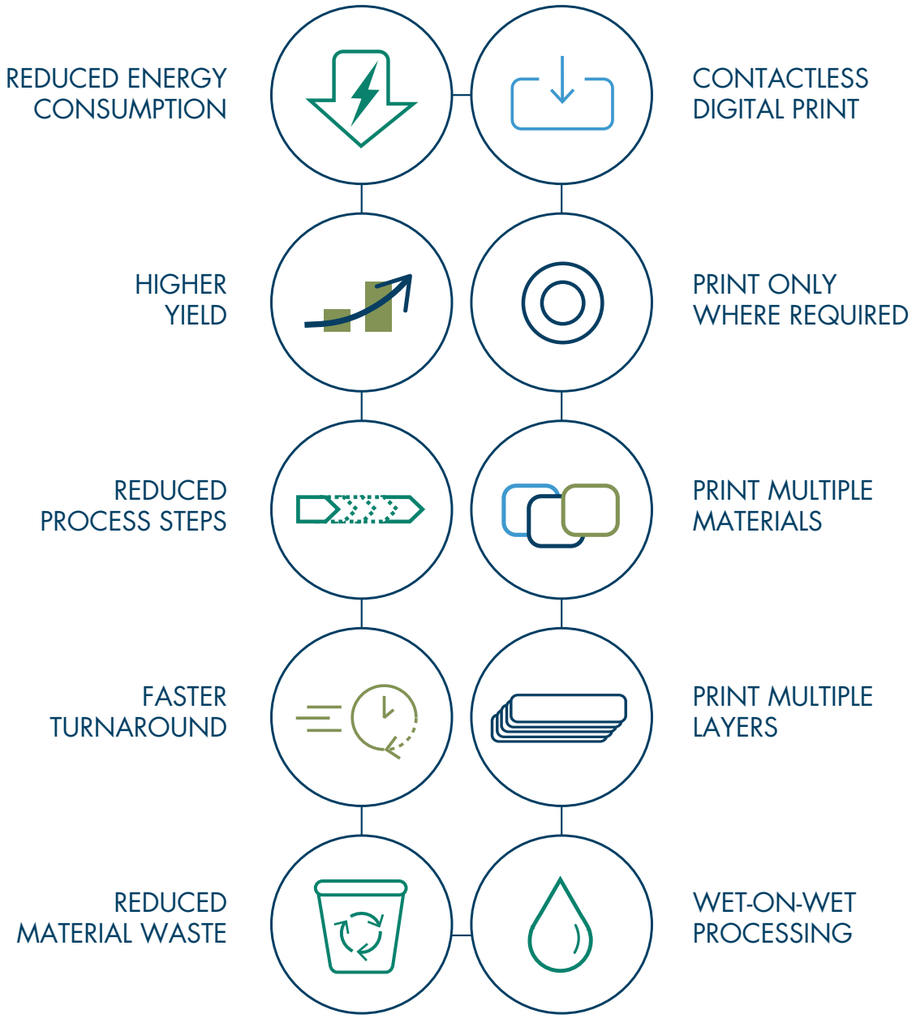
NOTION SYSTEMS

WE PRINT SOLAR APPLICATIONS WITH INKJET

Advantages of Inkjet Printing

Inkjet is a non-contact, digital printing technology which creates fine structures of 30 microns and below. The fully digital non-contact printing enables wet-on-wet processing without the need for masks or screens.

Inkjet is used to replace established subtractive process sequences and reduces waste and energy consumption, which makes electronics production more economical and ecological.



Platform Engineering

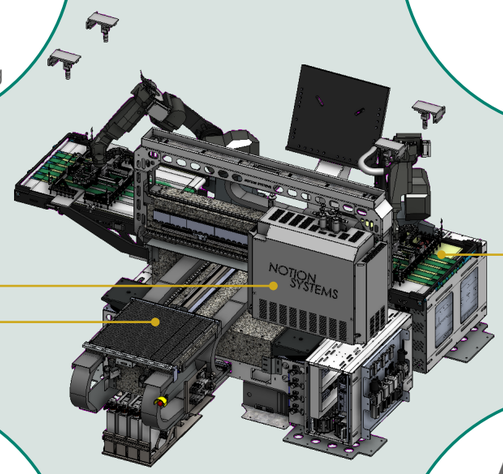
Notion Systems has developed a modular and open inkjet platform, which can be adapted to end user requirements in almost any respect. Our inkjet solution portfolio sets international standards in terms of efficiency increase while reducing production costs. Without compromising process stabiliy or precistion, our n.jet platform can be adapted to suit your needs including printhead assemblies in any configuration for almost any industrial printhead, stage sizes up to Gen 6, stage temperature control, hardware & software modules for drop formation analysis, optical alignment, automatic platform calibration, AOI modules as well as various stages of process environment control.

PROCESS UNIT

- **Printheads**
  - From all mayor suppliers
- **Ink supplies**
  - Small to large
  - RT to 100°C
  - Non/recirculating

PROCESS ENVIRONMENT

- **Top down flow**
- **Laminar flow**
- **T & RH control**
- **N2 glovebox**



STAGE

- **Chuck rotation**
- **Temp. control**
- **Lift units**
- **Vacuum zones**
- **Chuck design**

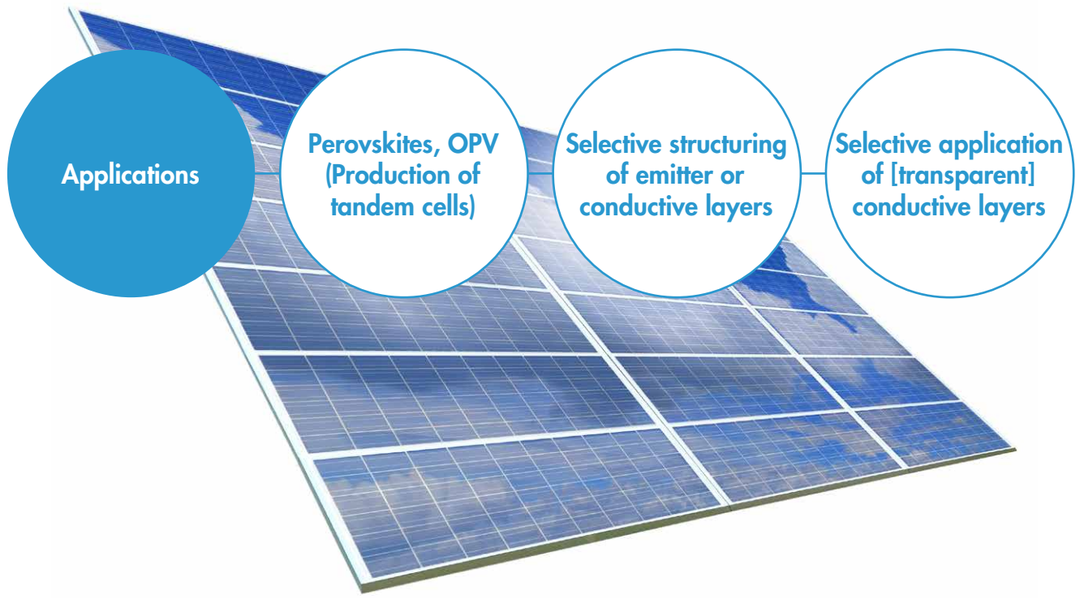
AUTOMATION

- **Sheet to sheet**
- **Glass panels**
- **Wafers**
- **PCBs**
- **roll2roll**

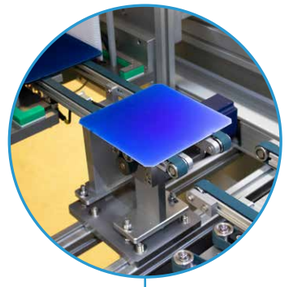
Notion is ISO 9001:2015 certified

Crystalline Solar

The need for cost-effective and sustainable energy sources results in a race to increase production, as well as cell efficiencies at the lowest possible cost. In particular in the introduction of new or improved cell-concepts, additive technologies and in particular, inkjet plays a major role.

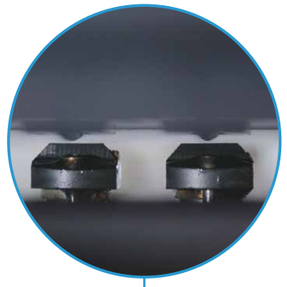


Options



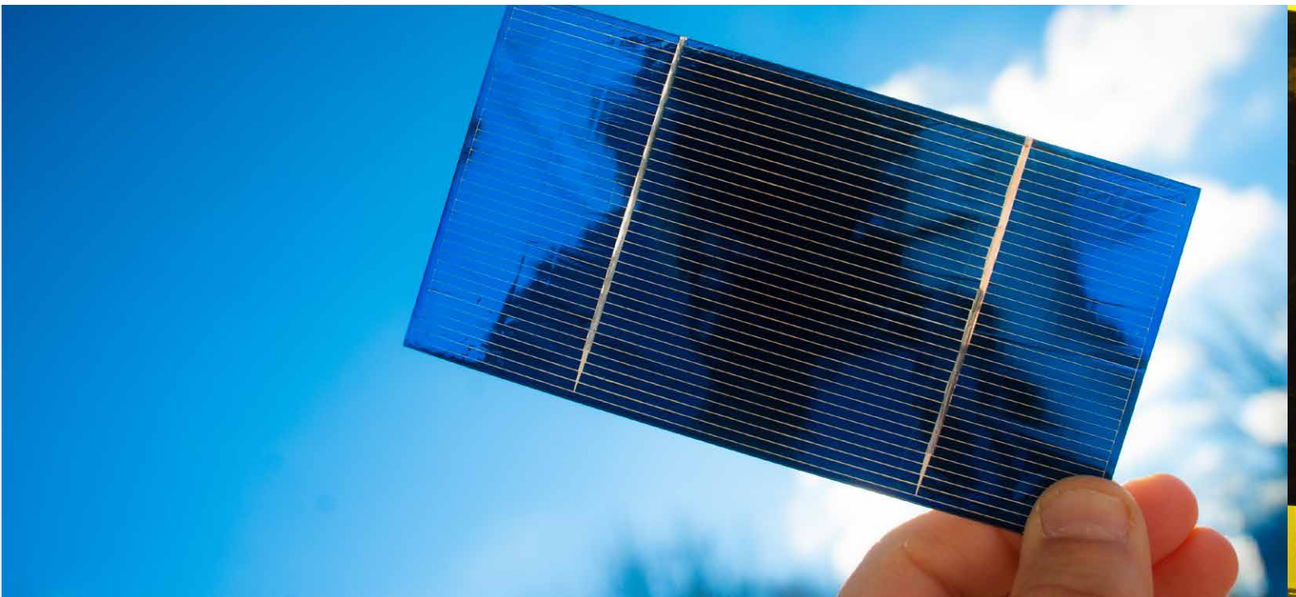
Automation from Box or carrier

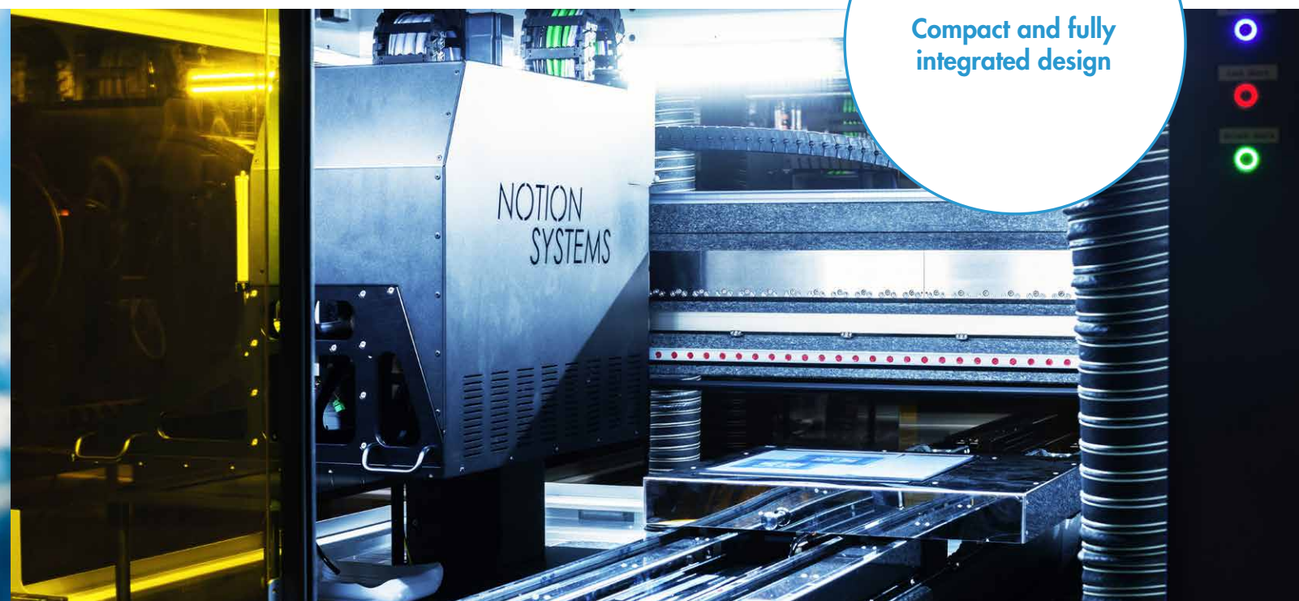
Individual process unit design



Manual or fully automated printhead cleaning

Process stage for different substrate sizes

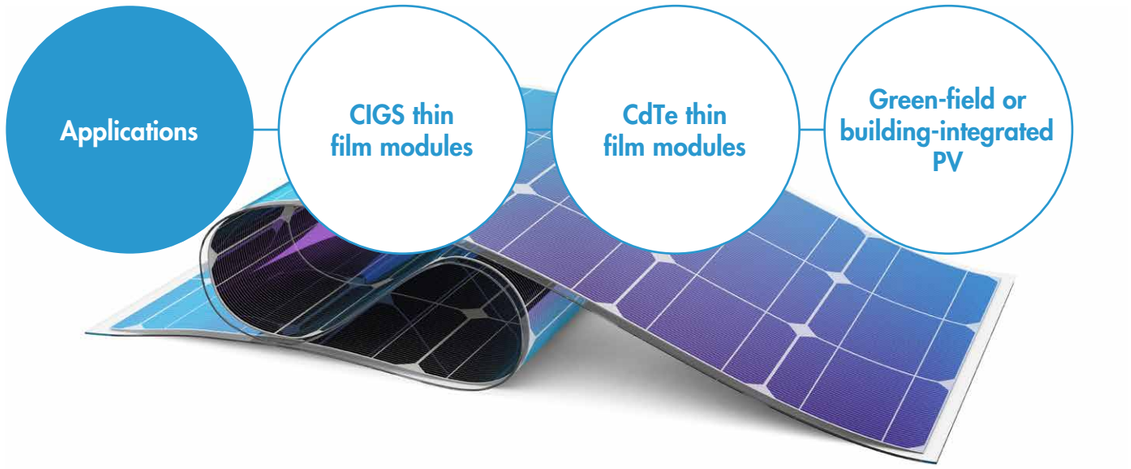




Compact and fully integrated design

Thin Film Solar

As cSi solar, thinfilm technology is driven by the need to introduce new processes increasing module output at ever lower cost per Watt peak. Wet processing in general and inkjet printing in particular is the perfect technology to apply structured functional layers at low cost with optimal control of local and global layer properties. Notion provides platforms for functional layer deposition on any panel size and for any throughput.



Options

Inkjet processing platform for thin film solar modules

NOTION SYSTEMS

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ECO FRIENDLY

THE FUTURE OF ADDITIVE MANUFACTURING

LAB EQUIPMENT

INDUSTRIAL SOLUTIONS

PLATFORM ENGINEERING

SERVICE

PROCESS

INKS

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