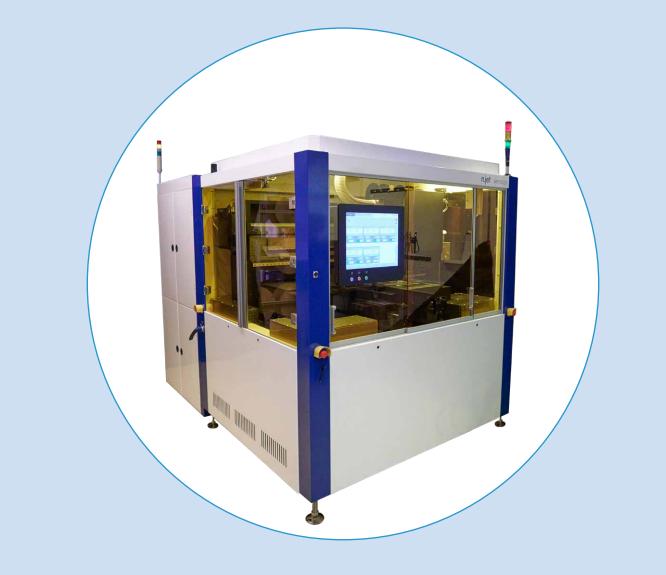


n.jet semicon



INKJET SOLUTIONS FOR THE SEMICONDUCTOR INDUSTRY

SEMICONDUCTOR

The n.jet semicon series offers a wide range of processes for frontend, as well as backend processes in the semiconductor industry. The platform comes with integrated edge handling for any substrate type or wafer size, integration with the MES system (e.g., SECS-GEM), and state-of-the-art pre- and post-processing modules.

Our nozzle replacement strategies and our full process control improve yield and process stability. The system can be combined with high-precision dispensing units that further enlarge the window of processable materials within the same platform.

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.



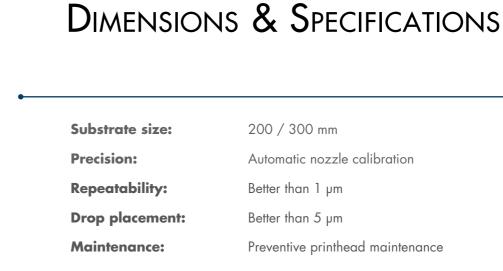
DIGITAL PRINT

PRINT ONLY WHERE REQUIRED

MAIN FEATURES

- High precision inkjet printing
- Drop placement accuracy of better than 5 micron
- High uniformity
- Printing of multiple inks
- Supports printheads from all major manufacturers

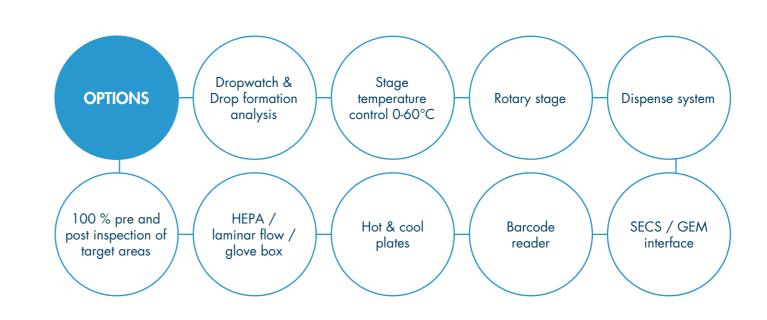
PRODUCTION **INKJET SYSTEM**



USABILITY & MAINTENANCE

The n.jet semicon platform features solutions for a large variety of applications. Our print strategies increase platform usability and process yield by minimizing the need for manual intervention or manual mechanical alignment of the printheads.

Our field proven advanced printhead maintenance system increases platform uptime. No direct contact to the printhead nozzle plate results in higher jetting stability and longer printhead lifetime. Our automated nozzle calibration and advanced nozzle replacement strategies provide you with full process control and reliable results.



Automation & Process Integration

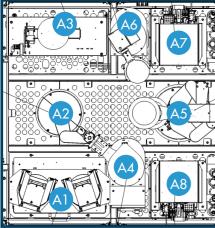
The n.jet semicon platform comes with optional wafer handling for various substrate sizes and can be equipped with further preand post-processing stations to provide a fully integrated solution to your process requirements:

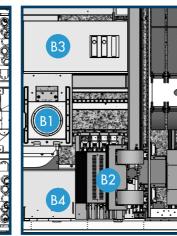
Robot handling from / to cassettes incl. wafer mapping & prealignment

Plasma cleaning, hotplates, UV curing, and more



CLUSTER SYSTEM





B: Inkjet

A: Loading & post-processing

- - B1 Inkjet print stage B2 - Inkjet process unit
 - B3 Maintenance area I

A1 - Wafer cassettes I/O

A5 - Process robot

A6 - Flipping unit

A7 - Post process tower I

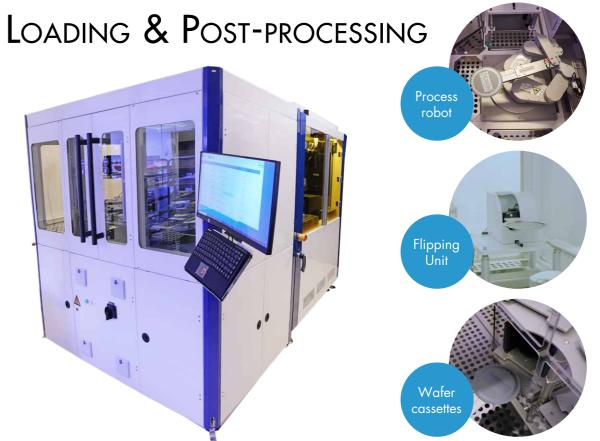
(HP & UV stack) A8 - Post process tower II

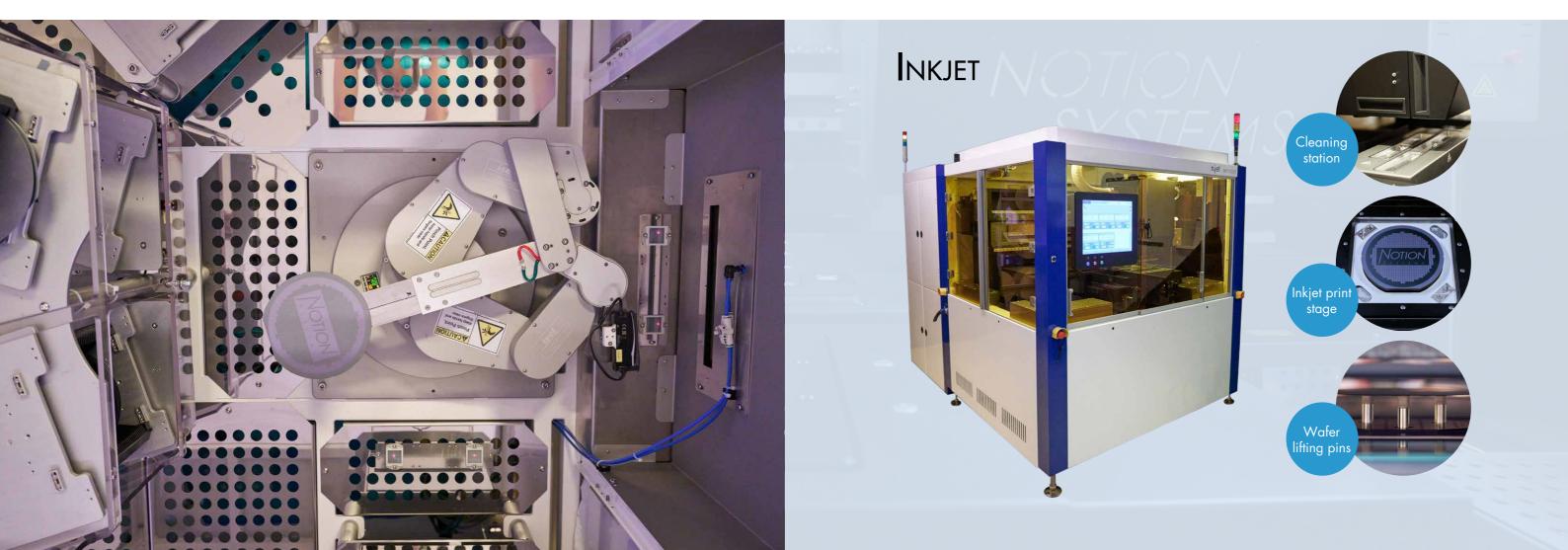
A2 - I/O robot (A1, A3, A4) A3 - Pre-alignment & OCR A4 - Wafer transfer buffer

(A4, A6, A7, A8, B1)

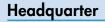
(HP & cool plates stack)

B4 - Maintenance area II









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THE FUTURE OF ADDITIVE MANUFACTURING

