

Matti Technology AG

Solution for testing ink development and process parameter optimisation.

The Matti Inkjet Test Platform is ideally for use in a laboratory environment, designed to test different print components and materials used in a digital inkjet system.

All components can be easily rearranged to allow process parameter optimisation.

Able to test printheads, dryers, inks, substrates and even proofing print applications prior to production printing and testing print quality.

The printability of a digital printing system depends on factors other than the printing device itself. These include, but are not limited to, substrate media, ink types, drying systems, printhead type and others.

**YOUR VISION
OUR
MISSION**



Matti Inkjet Test Platform

Exploring new printing media opportunities.

Heredity:

The inkjet platform has been developed from the “Open Press” digital print foundation. The platform can be configured for continuous or sheet media, using a wide range of inkjet printheads, the broadest spectrum of printable media with custom and standard inks.

Develop your capabilities:

The platform allows you to:

Easily evaluate different ink formulations and characterise their behaviour in a production-like environment.

You can optimise process parameters by testing different ink formulas, create various colour sequences to achieve the desired colour and vividness, experiment with different dryer systems and have access to an abundance of settings that influence the jetting behaviour and ink interaction on the substrate.

You can simulate a small-scale production environment to test new products before bringing them into a real production environment, proof customers applications or produce customers samples.

Ideas and Opportunities:

Considering ink development, inkjet production, the use of Eco-friendly optimally formulated products, produce products that are *better by design and economical*. Then the flexibility of the inkjet platform to carry out product diagnostics will keep you ahead of the rest.

The test platform facilitates easy useful and accurate direct comparisons of printing Parameters, allowing you to make precise assessments and set your unique standards covering all aspects of print functionality from testing print quality, paper/substrates, absorbency/printability, page scaling and colour conversion to proofing intricate design characteristics and acceptance testing.

The open design of the platform enables running extensive tests of desired parameters thus helping to create greater opportunities.

Discover, Define, Develop and Deliver.

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inkjet web solution

Concept and Principal Foundation:

The platform is a heavy-duty chassis that can accept different modules from printheads and dryers etc, capable of handling many forms of printable media and built for laboratory use.

The platform can accept up to 5 print head modules and dryers. Having an extremely robust chassis facilitates precise positioning and vibration free operation. A conveyor system with a unique substrate fixing and "lay flat" roller accurately transports the media.

Printbars and intermediate dryer modules can be freely spaced or sequenced along a 6.5 mtr conveyor, providing freedom to adjust process parameters in order to find the best parameters that work for your production environment as easily as possible.

Discover more about Matti Technology Solutions:

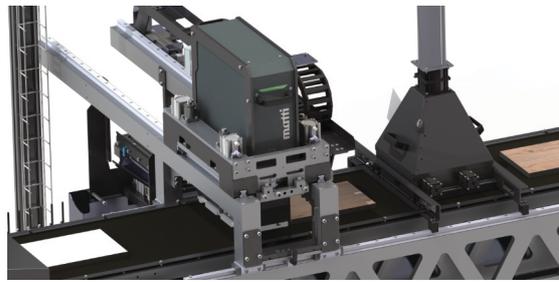
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Multi Module Testing Solution

Laboratory
"standalone"
TEST system.

Module Features.

Ink Delivery System:

The Ink Delivery System (IDS) filters and degasses the ink before transferring the ink to the sub-tank in the print bar at a set pressure. All fittings, tubes and sealings are of highest possible compatibility to the broadest range of inks.

Digital Front End:

The test platform is operated via a Matti Digital Front End (DFE) containing Harlequin RIP software, job queue and parameter adjustments of the print head. Capable of processing PDF files.

The DFE provides a top-level view of the test platform and allows the operator to manage print jobs, prepare the files for print and parameterise all aspects of the test platform.

Printheads:

The printheads can contain either one (4.25" version) or two (8.5" version) inkjet modules.

Each printhead contains a recirculating ink supply which again degasses the ink to achieve best possible reliability.

Jetting Modules:

Open to all manufactures modules, each print bar will accept up to a maximum width of 220mm.

Cleaning/Capping and Purging:

Fully automatic.

Options

Pinning: Air cooled LED pinning can be provided.

Drying: Drying modules can be IR/NIR or UV.

Pre-Treatment: Via roller based coating unit.

Cleaning: Fully automatic, via 3 containers containing primer fluid, wash fluid and waste fluid.

Technical:

- Max speed: 75 mtrs/min.
- Sheet feeding: By hand or automatic subject to substrate material.
- Max print width: 220mm.
- Max substrate width: 350mm
- Substrate thickness: 0.1 to 50mm.
- Max number of print bars: 5
- Max distance between colours: 1000mm.
- Conveyor belt length: 6,5 mtrs
- Compatible ink: Aqueous, UV and Hybrid.
- Environmental: 25-30°C, 40-60% rel. humidity, non condensing.
- Electrical supply: 400V (3LNPE), 63A max.
- Test Platform Size:

Width	7100mm
Depth	1450mm
Height	2200mm

Measurements are approximate.

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