MPRINT

a **KURZ** company

DIGITAL PRINT
SIMPLE.
INTUITIVE.
POWERFUL.

MPRINT – Black Forest precision for a digital world

As a global innovation leader of digital printing systems, we make inkjet digital printing for our partners and customers SIMPLE. INTUITIVE. POWERFUL.

MPRINT stands for innovation and passion in the development of digital printing machines.

This is accompanied by profound expertise in mechanical engineering with deep knowledge of the printing technology based on our decades-long experience. This combination is unique and is reflected in our success over the last 20 years. The quality of MPRINT products is best-in-class, as can be expected of a company from the Black Forest. In order to offer customers the highest level of reliability, we rely on both, an unusual depth of production in our modern production facilities and on our reliable supply partners. The decisive factor, however, is our dedication and attention to developing specific solutions which makes the user's job easier and the equipment more efficient than anything else in the market.

As a system supplier we offer all services, accessories, and consumables, because: „Our machines and our services must be as fast and agile as we ourselves are" (Michael Morlock, company founder and managing director). The result is the typical MPRINT efficiency that characterizes the performance and profitability of an MPRINT solution.

monojet® – the universal inkjet complete solution

It has never been so easy to integrate the highest inkjet quality into automated production systems. The monojet® family stands for a highly innovative and compact, modularly designed and very economical inkjet solution for printing variable and static data.

Compact on the outside, complete on the inside

Th-ink clever – th-ink mono! The monojet® print engine for LED UV and water-based inkjet printing, is mainly used as a printing system to be integrated in printing and finishing systems as well as in assembly and packaging lines. Ideal for applications such as coding & marking, serialization or late-stage customization.

Economical, because easy to integrate

- Installation within a very short time thanks to Plug & Play assembly
- Easy to integrate mechanically and electrically
- Control and ink supply integrated in the print engine
- Innovative quick cleaning system
- Resolutions up to 1200 dpi
- Comprehensive accessories
- Short delivery times
- Print widths suitable for common printing and finishing machines from 108 mm to over 1 m

4C-COMPACT – the inkjet module for a digital future

By integrating the 4C-COMPACT inkjet module into new or existing printing and finishing machines, you take the first step towards digital transformation. Advancing digitalization, market changes and competitive pressure require new, innovative approaches.

4C-COMPACT – the compact inkjet module for color

This digital CMYK printing unit is uniquely suited to retrofit existing conventional machines, e.g. printing and finishing machines, etc. But it is also suitable as a highly flexible functional extension for use in new machines such as flexo printing, booklet or converting machines. In combination with unwind and rewind modules or a converting unit, the 4C-COMPACT is also available as a stand-alone roll-to-roll or roll-to-sheet inkjet printing system.

Highest print quality, even for the shortest runs

- Full-color print engine for economical production of high-quality labels
- Available for water-based and LED UV inks
- Compact housing incl. LED UV drying
- Simple integration
- Available in two basic module widths - 216 / 324 mm or 432 / 540 mm
- Automatic head cleaning system
- Standard resolution up to 600 dpi
- Printing speeds up to 75 m / min (LED UV) or 100 m / min (water-based)

MJETeco – the compact variable roll-to-roll printing system

Regardless of whether printing text, barcodes or even security features, the MJETeco is up to the task. The compact and complete printing machine processes all kinds of data and materials at breathtaking speed.

MJETeco, more compact is impossible

Would you like late-stage customization, but have no space to integrate a mono-jet into an existing production line? No problem for the MJETeco. With unwind and rewind, one color and a print width of up to 216 mm, individual prints can be processed quickly, efficiently, and cost-effectively. The intuitive software with countless features makes the MJETeco extremely versatile. The inexpensive entry-level configuration can be expanded into a real workhorse with adding clever options. Predestined for adding variable information to pre-printed labels in the wine sector or as a replacement for an entire bank of slow thermal transfer printers near-line on the packaging/bottling line.

Low-cost to All-in

- Print width 108 or 216 mm (4.25" or 8.5")
- Print speed up to 75 m / min (246 ft/min)
- Standard resolution up to 600 dpi
- Manual quick cleaning system
- Integrated UV LED pinning and UV LED final cure
- Available with UV LED or low migration UV LED inks
- Stand-alone with minimal integration effort
- Optionally with web guide, motor-driven retraction of labels, camera inspection or even a simple slitting unit.
- Footprint less than 1.5m^2 (16 ft^2), no electrical cabinet, no loose cables, immediately usable

MJETbasic · MJETplus – Producing short runs efficiently

The requirements are diverse, and so is the MJET family - no matter if printing one color, multi-color, or entirely finish a label, printing on blank material, pre-cut material, or converting inline. Laminating is just as possible as roll-to-sheet production with sheet conveyor.
The final product determines the configuration.

MJET family – variability in a compact package

With a print width of 108 or 216mm and a web width of 250mm, short runs can be produced efficiently and cost-effectively. The MJETbasic can be equipped with colors as desired (single color, full color, hexachrome, white, varnish, etc.). And if the label is to be fully converted, the MJETplus offers all the options. Whether laminating, die cutting and stripping of the matrix, or slitting and sheeting, there are no limits to the variability. Of course, the heart of the printing unit is made up of proven monojet® print engines. What more do you want?

From entry-level to all-rounder, mono to multi

- Print width 108 or 216 mm (4.25"or 8.5")
- Print speed up to 75 m / min (246 ft/min)
- Standard resolution up to 600 dpi
- Manual quick cleaning or automatic cleaning
- Integrated UV LED pinning after each color and UV LED final curing lamp
- Available with UV LED or low migration UV LED inks
- Stand-alone with minimal installation time
- Options like Corona pre-treatment, die stations, sheet conveyor, and many more
- Customer-specific requests can easily be realized due to modular design
- No external electrical cabinets

mlabel® – Combining quality and efficiency

The technology: productive and future-proof. For maximum print quality and the highest possible throughput, the mlabel® combines mechanical precision with specially developed hardware and software. The result: a true digital hybrid solution.

Well prepared for the future

Generation 3 of the mlabel® is a full-color hybrid press with any number of inks, including high opacity white and varnish, and can be designed for roll-to-roll or roll-to-sheet production. It has a modular design and can be individually configured with finishing modules as well as different laminating and converting modules. The modules can also be purchased later and easily integrated. The multilingual, user-friendly user interface with plain text guidance helps to eliminate operating errors.

Productive and future-proof with maximum flexibility

- Quick reaction to changing market requirements
- Single-pass UV inkjet technology
- Highest print quality thanks to grey-scale printhead technology
- Integrated UV LED pinning unit after each printing color
- State-of-the-art RIP and Color Management Software
- Print speeds up to 75 m / min
- Print width 324 mm
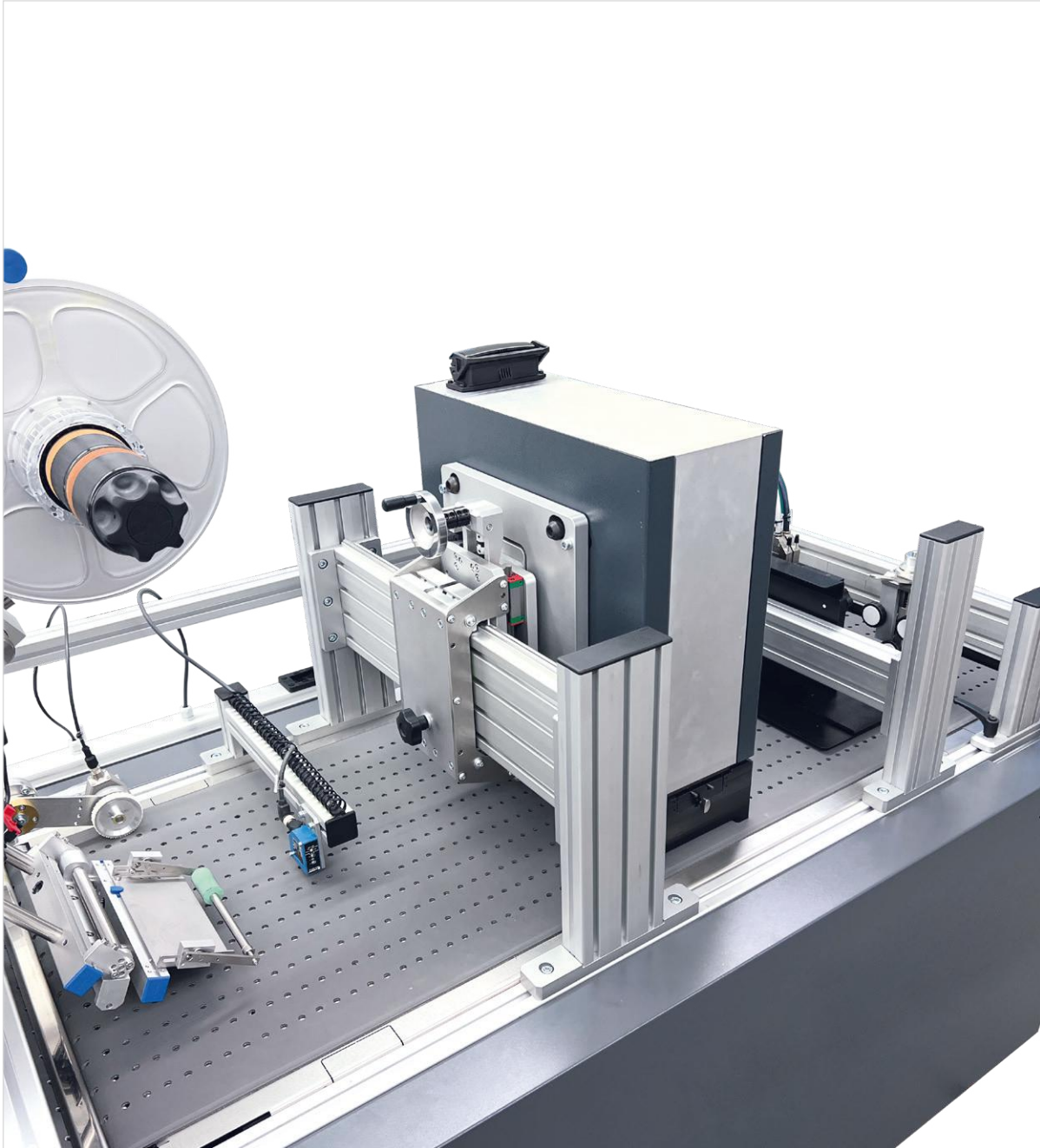
Individual solutions for roll and sheet

MPRINT solves customer-specific requirements around the printing machine highly efficient utilizing standard components and custom developments - often in close cooperation with market-leading partners. In-house development with mechanical and electrical design, software development and the high vertical integration are the basis for your custom solutions.

For higher reliability and less costs

From the periphery to the digital printing unit to the transport system: components developed and tested by MPRINT as well as innovative overall solutions are used, among other things, in the production of personalized mailings in sheet-fed printing, in a wide variety of areas as modules in label printing and finishing lines or as complete, customer-specific printing system for a wide variety of applications. All special solutions include our own MPRINT printing technology.

Retrofits, upgrades and more

- Customized rewinders
- RFID insertion modules
- Rewinder incl. digital printing technology as a complete system
- Single or multi-color laboratory printing systems
- Complete solutions for the mailing sector
- Special solutions for blister card or folding box printing

Custom machines for digital direct printing

With the know-how of special machine design deeply rooted in MPRINT's DNA, even the most complex direct-to-part digital printing requirements can be met by designing clever and highly efficient machine solutions. Depending on the application, the final systems use rotary indexing tables, linear drives, parts carriers or conveyor belts.

Increased efficiency with digital printing

The unique knowledge combination of digital printing and special machine design results in new approaches in the field of digital direct printing. A wide variety of transport systems that are specially tailored to the production line of the end product are combined with the appropriate inkjet technology, be it single or multi-pass, white or primer laydown or flood coating. To be able to cover a wide range of products and pre-conditions, a wide variety of pre-treatment technologies are also available. Camera recognition of the products and software-supported calculation of the camera image with the print image in real time result in amazing print images.

Experience and know-how open up countless possibilities

- Single or multi-pass
- Various inks systems and colors
- A wide array of transport solutions
- Manual or fully automatic parts loading and unloading
- Pre-treatment options: plasma, flame, CO_2 snow blast, alcohol, etc.
- Print image capturing and image offset calculation with high resolution camera
- Integration in customer's order processing system with automatic job selection and processing
- Available as stand-alone machine or integration module for an existing production line

MPRINT – KURZ
Part of a large network

The medium-sized, innovative machine builder and digital printing specialist has been part of the KURZ Group since the beginning of 2020. With its experience in inkjet printing and knowledge of mechanical engineering, MPRINT complements the wide range of products and services of the KURZ Group and makes an important contribution as know-how bearer within the group

As an internationally active company with over 5,500 employees worlwide, KURZ has been setting new standards in the field of attractive and functional surface finishing for over 120 years.

KURZ coatings decorate products, enhance brands, identify goods, protect surfaces and prevent counterfeiting. On top of that, KURZ backs optical elements with digital functions and links the visual world with the virtual world.

The KURZ Group provides complete solutions including project consulting, machine and tooling technology and is established at more than 30 locations worldwide. KURZ manufactures in Europe, Asia and the USA according to uniform quality and environmental stan-

dards. With a global network of subsidiaries, representatives and sales offices, KURZ ensures close cooperation, reliable delivery and individual on-site support.

Symbioses of companies within the Kurz Group lead to innovative and pioneering products in the industry.

MPRINT is a proud part of this network and has now successfully supported various companies in the KURZ Group with digital printing technology.

KURZ

We are here for you

Experienced and committed - whether small accessories or large projects - at MPRINT we have everything safely under control. From the quotation to project management and on-time delivery. And even after a successful machine start-up, we are always there for you.
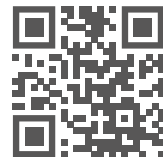
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