microplex
printware ag

PRINTING TECHNOLOGIES
ENGINEERED IN GERMANY

Developing bespoke print solutions for highly specialized industrial applications.

PRODUCTS AND INDUSTRY SOLUTIONS

Developing bespoke print solutions for highly specialized industrial applications – often at the limits of what is normally technically possible.

Our **philosophy**

"Since 1987, it has been our goal to optimize our clients' printing processes and subsequently improve their workflows," says Olaf Mergili, Managing Director of **Microplex**. "Our ability to consistently deliver on this objective is largely the result of our outstanding team of specialists. They thrive on the constant challenge of not just keeping pace with the rapid technological advances being achieved by the world's leading printer manufacturers, but also being the proverbial one step ahead of both them and, of course, our competitors."

Our **ambition**

Whenever it comes down to the highest printing precision and most accurate timing in business-critical applications and production processes, **Microplex** customers can rely on us to implement the latest state-of-the-art printing solutions simply, inexpensively and swiftly – even in complex company and production environments. Workflows are thereby not only simplified and accelerated but also made more secure and efficient overall.

Our **offer**

Microplex offers its customers custom-made printing solutions – which can often also be modularly extended. The prerequisite for is that the **Microplex** specialists understand what is important for achieving the overall outcomes and how the entire system functions – or how it is supposed to function. "Only when we have completely understood every single aspect do we begin to work. This is because only then, do we take it upon ourselves to actually implement our printers – which regularly occurs during ongoing operations – be it in a computer network, a central warehouse, a car manufacturing plant or some other specialized area of application," explains Gero Decker, COO at **Microplex**. He adds: "And should a requirement change at a later stage, Microplex is always in a position to make the necessary adjustments."

Our **performance**

What company doesn't want to achieve more in less time – while simultaneously not compromising on quality? After all, in today's competitive business environment, the speed of output is often among the most important parameters that can decide who attains and retains the top position in a given industry. **Microplex** understands how to unleash and best exploit the residual potentials of high performance printers and control these so precisely to ensure permanent gains to productivity. And despite our love for technology, cost efficiency always has top priority for the **Microplex** team of experts. That's why they keep a constant eye not only on the one-off costs but also on all ongoing expenses to ensure the maximum benefit to your bottom line.

CONTENTS

High tech "Made in Germany" – We at **Microplex** combine highest technical know-how with a deep understanding of the demanding challenges faced by our customers.

The centerpiece

The **Microplex** Print Controller (MPC) guarantees the high working speed and unmatched scope of performance **Microplex** printers deliver.

Industry solutions

No matter the challenges you face, we have the optimal printer solution available custom-made for your precise individual requirements.

THE **CENTERPIECE** OF THE
MICROPLEX PRINT TECHNOLOGY
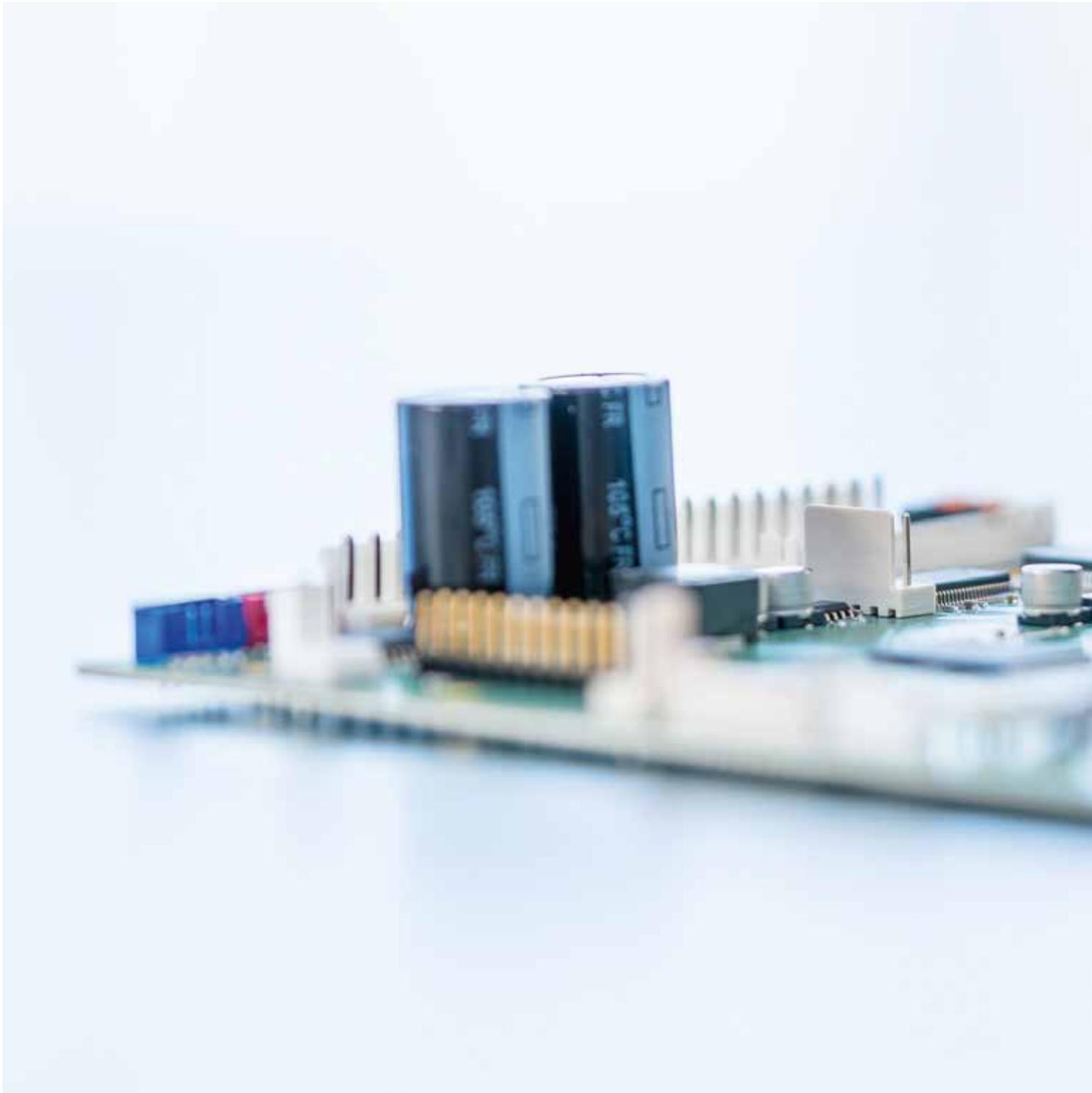
The **Microplex** Print Controller (MPC) is the result of our extensive experience: controller technology that is ahead of its time.
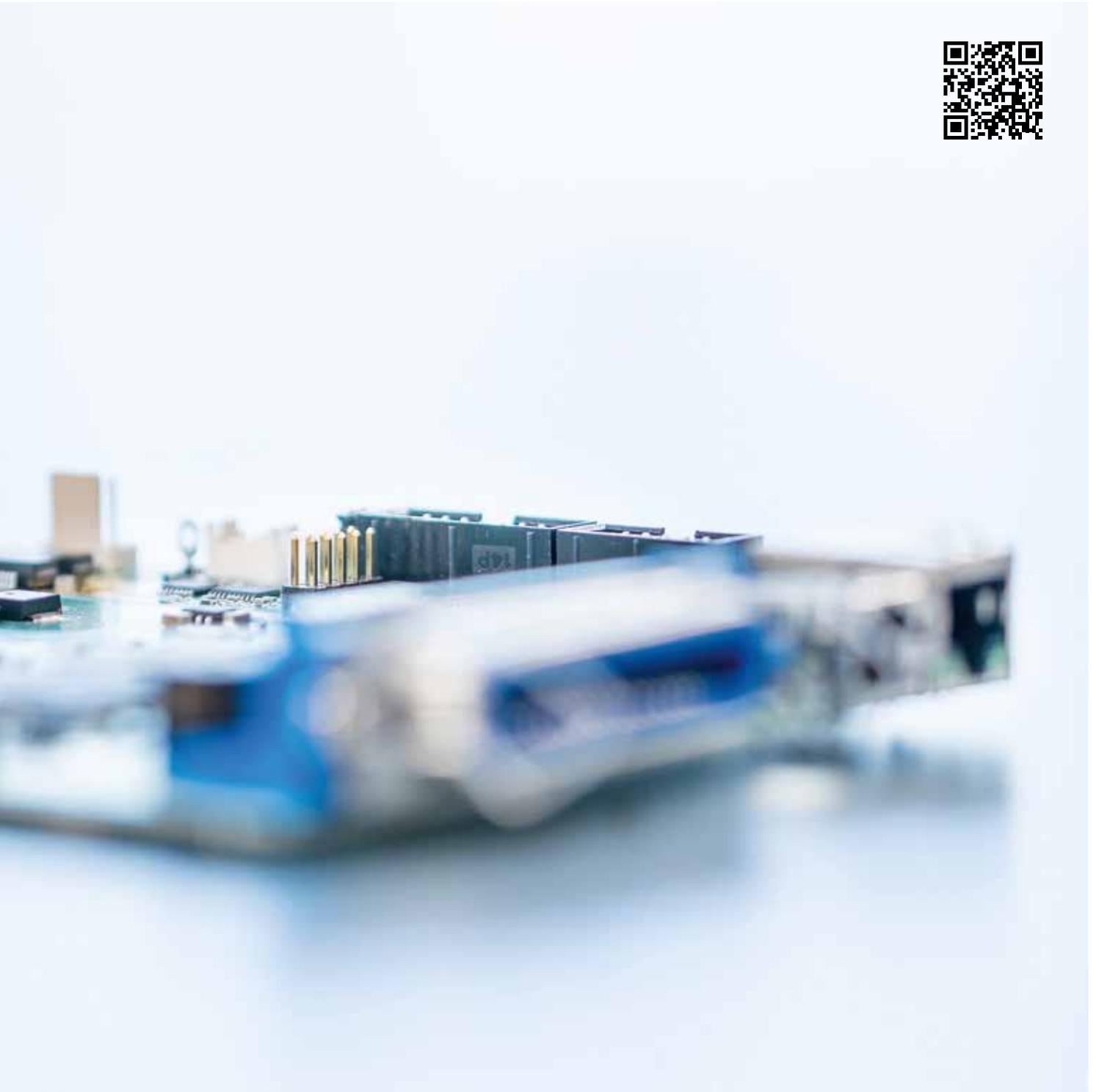
THE **CENTERPIECE** OF THE
MICROPLEX PRINT TECHNOLOGY

Microplex printers emerge from the interplay of distinguished **experts** with decades of **experience** in the printer industry and **young digital professionals** who continually push the boundaries of what is possible.

The printing mechanisms of various reputable manufacturers are used as the basis for our high performance printers. But only with our **Microplex** Controller is the full performance potential of the equipment completely exploited.

The main tasks of the **Microplex** Controller include the rastering of incoming print data (known as Raster Image Processing) as well as controlling and monitoring the output device. An "embedded controller" is implemented as hardware in the printers. The software required for this is termed firmware. The emulations and functions are incorporated in the firmware.

The ingenious concept of the MPC separates these tasks. This means that the full scope of functions is available irrespective of the printer technology deployed. You decide which printer technology is best suited to your requirements – without any limitation in functionality and independent of existing systems.

The MPC provides you with the possibility to replace any old printer with a modern, high performance **Microplex** printer. Thanks to the incredible flexibility of the **Microplex** Controller, adjustments within your system environment are not required.

PRINTING WITH SAP – EASILY EXECUTED
WITH MICROPLEX PRINTERS

The printing of special materials and formats with SAP is always a particular challenge. For example, in order to print barcode labels on a laser or thermal printer, or delivery notes, packing lists and invoices on a continuous form printer often requires special interventions in the system – which may even involve special programming. Such interventions not only cost time, but also money.

Microplex high performance printers capitalize on the very good SAP support of the printer languages (emulations) HP PCL5e / PCL5c. This PCL5 language is supported across the board on all Microplex printers irrespective of their implemented technology. This ensures that our printers are always smoothly integrated, saving time and money – independent of the print technology used.

EMULATIONS AND BARCODES*:

Emulations simulate the printers and printer languages of other manufacturers. They let commands be interpreted enabling similar printouts to be generated. A key benefit of the Microplex Controller is that these printer languages can be implemented across all print technologies.

Thermal printers	Laser printers	Matrix printer	Further emulations
ZPL II, cab	PCL5	IGP/VGL	CUPS Raster
EPL2	IGP/PGL	EPSON FX-80	µ-Postscript
Datamax	XES	ANSI Genicom	HPGL
TEC	Prescribe	CODE-V	TIFF
IER-Command	Kodescript+	MT-600	IPDS
UBI FingerPrint	AGFA RENO	IBM ProPrinter	Diabolo 630
LDC	LN03+		LINEPRINTER
LabelPoint	BULL-MP6090		HP DesignJet
ETIMARK MP-1220			

Two-width codes	Multiple-width codes	Height-modulated codes	2D barcodes
Codabar	EAN-8	Postnet	Aztec-Code
Code39	EAN-13	Planet	PDF417
MSI	EAN-128	KIX	Datamatrix
Interleaved 2/5	Add-On-Codes	Royalbar	Maxi-Code
Interleaved 2/5 (3-Strich Datalogic)	Code 11	USPS One Code	USD-5
Interleaved 2/5 3-Strich Matrix)	Code 93, Code128, UPC-A, UPC-E		QR-Code

* Not all emulations and barcodes are provided as standard by all printers. Please refer to the respective printer datasheets for detailed information.

INTERFACES**:

Microplex printer offer interfaces for integration with existing systems and controllers:

Ethernet 10/100 MBit bidirectional (TCP/IP)
USB
Serial RS232 / RS422
Parallel IEEE 1284
W-LAN
PLC control (Programmable Logic Controller)
Programmable GPIO-Interface (SPS-Control)
(EMBEDDED INTELLIGENCE - Enabling two-way communication between printer and a PLC)
Customer specific modifications possible.

** Not all interfaces and barcodes are supported as standard by all printers. Please refer to the respective printer datasheets for detailed information.

BANK ON
SECURITY!

Protection against misuse due to continuous printing and uninterrupted serial number sequences.

Powerful replacement for any types of existing old printers.

Low set up and running **costs.**
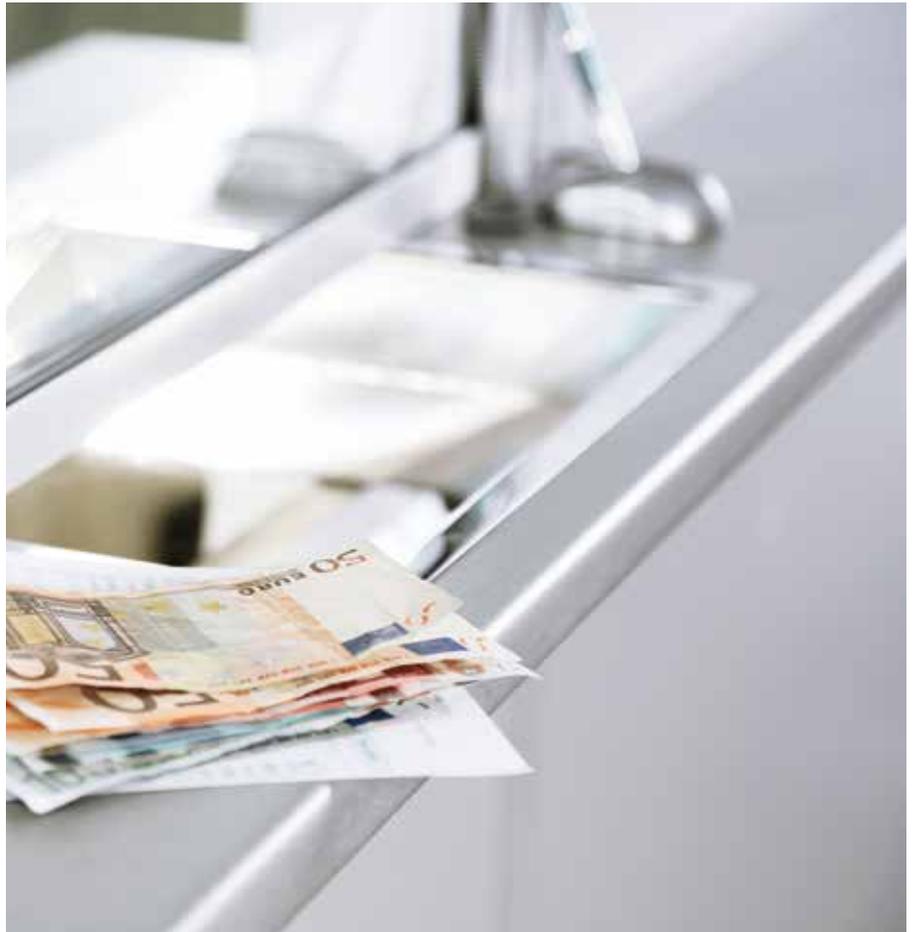
Our solution for you

* e.g. Microplex SOLID F140:
The robust and reliable continuous laser printer easily processes large print volumes at exceptionally low operating costs.

When what's printed is worth cold hard cash, extra **security** is demanded – also **for the printer!**

Utmost security is crucial to make misuse impossible when printing cash-value documents. Our professional laser printers* let you conduct the continuous printing of checks, vouchers and coupons along with any other cash-value documents – thereby enabling uninterrupted serial number sequences. That greatly simplifies the task of controlling the prints and seriously hampers the risk of misuse.

The integrated **Microplex** Print Controller is compatible with all common standards. In addition, its extreme computing power ensures a rapid working pace.

Microplex printers stand for easy integration in any existing system environment, fast working speeds and high reliability.

The **high printing speed** right from the first page and **continuous printing** ensure **smooth workflows.**

Time-saving integration in the existing system environment, easy replacement of slow or defective devices.

Top productivity due to rapid **continuous printing** ensures no stops or delays to the production line.

Our solution for you ⌄

No one likes to wait – neither customers for their products, nor you for your printer.

Speed is about technology – and not a matter of magic. Thanks to the integrated high-performance controller, **Microplex** printers* undertake all printing jobs that arise at a tremendous working pace – right from the first page. Printing takes place without interruption: thanks to twin paper trays, printing materials can be added during operation. Delays due to the printer not keeping up with your pace of work – resulting in backlogs – are a thing of the past.

Whether you want to replace a defective or old unit, want to set up a new production line or simply just want to print faster, the robust, highly resilient and fast **Microplex** printers can be integrated in any system environment economically and without effort. They represent the ideal solution for your logistics demands.

* Dependent on printer and technology implemented

* e.g. **Microplex SOLID 90A3:**

With its extremely fast printing speed, flexible paper loading, intelligent barcode generation capabilities and optional SPS control, this high performance laser printer is ideally suited for integration in production lines.

ENSURE YOU PLAY IT **SAFE WITH HAZARDOUS GOODS**

Reliable safety through **top label quality.**

Powerful replacement for defective, old or slow printers.

Low installation costs thanks to **straightforward integration** in your system.

Our solution for you

* e.g. Microplex logiJET TC8:

The robust thermal transfer printer provides GHS-compliant labels to 219mm width in two colors, if desired, predestining it for deployment in the chemical, pharmaceutical or food industries.

Compliant hazardous goods labeling – **no problem** with the right printer.

The interplay of the surface material and adhesive is decisive for the quality and longevity of hazardous goods labels. Liquids, oil, grease, soapsuds, solvents, acids or salt water should not have a negative impact on the labeling or adhesive. This demands the use of advanced materials – and powerful printers capable of handling such materials easily, swiftly and reliably.

Thanks to GHS-compliant printing, continuous batch processing and an optimal processing sequence, **Microplex** thermal transfer printers* fulfill such demanding tasks with impressive speed and at a level of quality you can always rely on – even under the most challenging conditions.

* TC8

THE PRICE? **EXCEPTIONAL!**
AND GOES THROUGH THICK AND THIN

Trouble-free handling of
thicker printing materials.

Low-maintenance,
smooth operation in any
system environment.

Low set-up and
maintenance **costs.**

Our solution for you ⌄

Tough materials demand
tough, high performance printers.

Packing shelves, discarding boxes, setting up and rearranging goods – all within tight timelines: the conditions experienced in the area of retail and wholesale trade are quite often rather tough. As such, the materials used for product descriptions and price labeling must also be tough – along with correspondingly robust printers.

Microplex printers* were developed for precisely this type of continuous load under tough conditions. The SOLID T4-2 / T6 / T8 process regular sheets, thick paper and cardboard with ease up to a weight of 240gsm – at high speed with reliable quality and at low operating costs. Thanks to the intelligent **Microplex** Print Controller, they can be integrated into any system environment without any big installation effort and cost.

* e.g. **Microplex SOLID T8:**

The reliable production thermal printer developed for deployment in rough industrial environments handles cardboard to 240gsm, prints to 213mm width, and can be quickly and easily integrated in existing SAP environments.

FAST AND POWERFUL – NO MATTER HOW PRESSING THE DEADLINE

Highest printing speed for a **smooth workflow.**

High computing performance through the **Microplex** Controller.

Highest productivity through fast **continuous printing** to ensure no interruptions or delays to production line.

Our solution for you

* e.g. **Microplex SOLID 45ET:**

The lightning-fast commencement of printing, rapid working speed and absolutely reliable paper feed predestines this robust thermal printer for the smooth integration in demanding logistics and production processes.
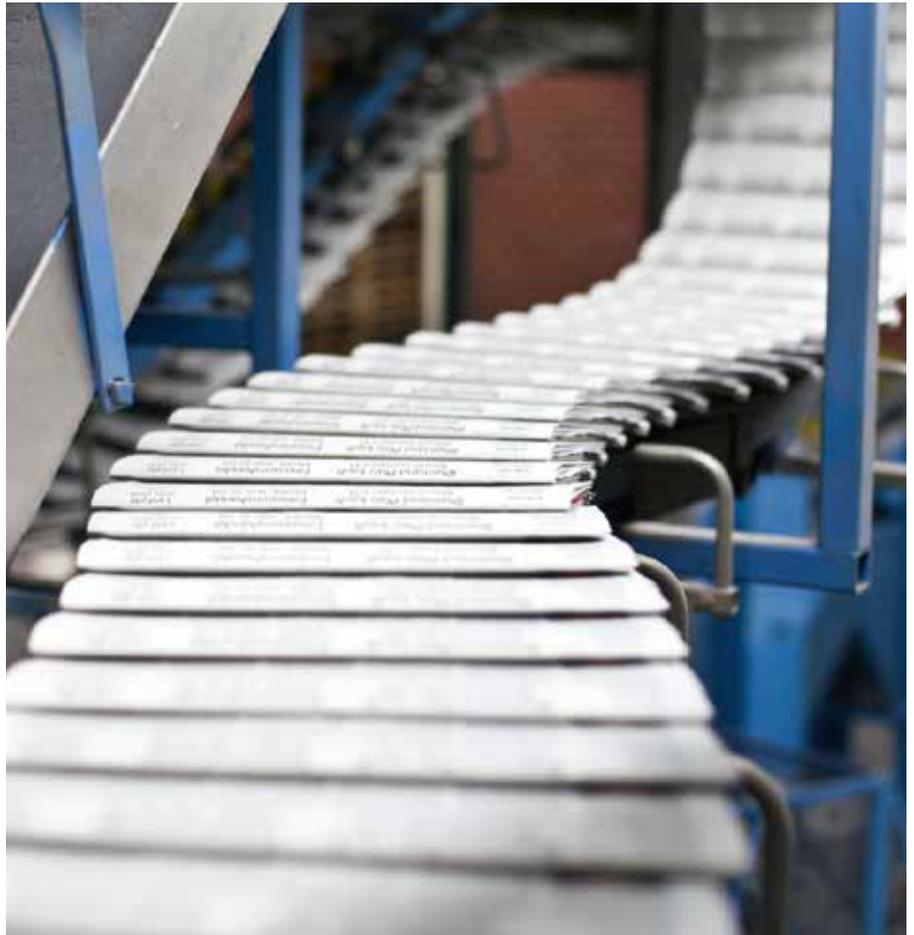
Reliable operation even at highest printing speeds.

No matter if daily newspapers, magazines, leaflets or periodicals – when the press is rolling and the stacks are being packed for distribution, it comes down to working at the highest speed and with complete reliability. After all, interruptions and delays cause majors follow-on effects to business operations and may be extremely costly.

Microplex printers* can keep up with your pace. They distinguish themselves through their tremendously fast processing speeds from the very first page and extreme re-liability even during continuous operations. Thanks to the intelligent **Microplex** Print Controller, any type of printer – whether laser, thermal transfer or matrix – can easily be replaced.

High-speed data processing and a fast "first page" enable "just-in-time" printing. Delays arising from your printer not being able to keep up with the incoming workload are a thing of the past.

Fast connection thanks to **universal interfaces** and programmability.

Fast and inexpensive installation, **professional reliability** for high productivity right from the first page.

Our solution for you

Prints – as **fast** and **reliable** as **your production**, even when working to tight deadlines.

Shipping labels, RFID or barcode labels, tags or tickets, on paper or foil, in black & white or in color and smudge-proof – whatever you need to keep your production running, your **Microplex** printer* will operate fast and with maximum reliability. Built for professional deployment, robust and durable for ongoing smooth operation at highest speeds.

No matter if implemented as a new system or as a replacement for a defective or slow unit, the integration of a **Microplex** printer in your system environment is fast and easy – irrespective if using SAP, Unix, AS/400, Windows or another system.

* e.g. **Microplex logiJET T6-2:**

The generously equipped, robust thermal printer can also be equipped with an RFID reader. Thanks to its exceptional compatibility, it can be easily integrated in existing system environments and can replace any other printer.

EVERY PRINTER IS **REPLACEABLE** – **BETTER** THAN THE ORIGINAL

Highest printing speed for a **smooth workflow.**

High computing performance through the **Microplex** Print Controller.

Highest productivity through fast continuous printing to ensure **no interruptions** or delays to production line.

Microplex – printers for every application, for every system, at every place.

No matter if SAP, AS/400, IPDS, Unix, Windows or a combination of them all, IT system environments are just as diverse as the companies that implement them. For many devices this represents a significant challenge – but not for **Microplex** printers. The integrated **Microplex** Print Controller understands many languages and emulations, and is programmable and adjustable, if required. Time-saving installation and trouble-free maintenance is thereby guaranteed.

A further benefit of **Microplex** Print Controllers is that these printer languages can also be implemented across technologies. This means that processing of, for example, thermal printer data streams such as ZPL II – which is normally only possible via a corresponding thermal printer – is also possible with a **Microplex** laser printer. The foundation for this capability is IDOL – **Microplex's** own printer language.

Microplex therefore provides the ideal printing solution for professional environments: easy to integrate and fast right from the first page, **Microplex** printers are the ideal new purchase or trouble-free replacement for defective, old or too slow devices.

> PRODUCTS:

The high performance and extremely fast Microplex Print Controller (MPC) guarantees that Microplex printers achieve an unsurpassed level of compatibility for integration in existing system environments, ensures the provision of a vast array of functions and also warrants the processing of all common emulations.

⌄ Our solution for you

Cut sheet printers:
SOLID 50A3-3
SOLID 90A3
SOLID 105A3
SOLID 120A3
Continuous form laser printers:
SOLID F40
SOLID 60E-2
SOLID 85E
SOLID F140
SOLID 166E
SOLID 58E MICR
Thermal printers:
logiJET T4-2
logiJET T6-2
logiJET T8-3
SOLID T4-2
SOLID T6
SOLID T8
SOLID T11
SOLID 45ET/SOLID 45ET-2
Continuous form color printers:
logiJET TC8
F26C
F36C
RFID printers:
logiJET T4-2
logiJET T6-2

CUSTOM-MADE **SOLUTIONS**
– AT YOUR DISPOSAL

About **us**

Based in far northern Germany since its foundation more than 30 years ago and boasting a US subsidiary from 1998 onwards, the secret of the company's success can be summed up in a single sentence: "The development of custom-made print solutions for highly specialized industrial applications – often at the limits of what is normally technically possible".

In 1987, three engineers made the leap into self-employment and founded their own company – **Microplex.** The founders brought substantial intellectual capital with them: with their know-how, obtained in comprehensive fundamental research, one of the world's first-ever laser printers came into existence.

With the foundation of **Microplex,** development concentrated on custom-made printer controllers and software. Through a vast inherent basic and intense knowledge of physical processes, a constant sounding out of the enormous advances being made in electronics and digital technology, and combined with a deep understanding of the practical demands in the professional deployment of printers, this has led to the development of applications and products that are squarely oriented to the specific requirements of customers.

Today, **Microplex** offers a broad product range of professional printers with a highly flexible potential for deployment. Aimed towards industrial applications, **Microplex** products not only surpass the performance of most other printers, they also exceed the expectations of customers.

Our **service**

Customers want reliable solutions for the long term. **Microplex** ensures highest quality as well as customer-friendly maintenance and service intervals. And in the case of an urgent issue, our product specialists and partners are there on site to assist customers – even outside of regular office hours, if required. And so that customers can be in a position to manage their complex solutions independently, **Microplex** also offers individual training sessions. Besides providing the necessary specialist knowledge, valuable tips and tricks are shared too.

Our global partner is available to answer all questions on sales, service, support and installation.

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