



PRINTING TECHNOLOGIES
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Automotive

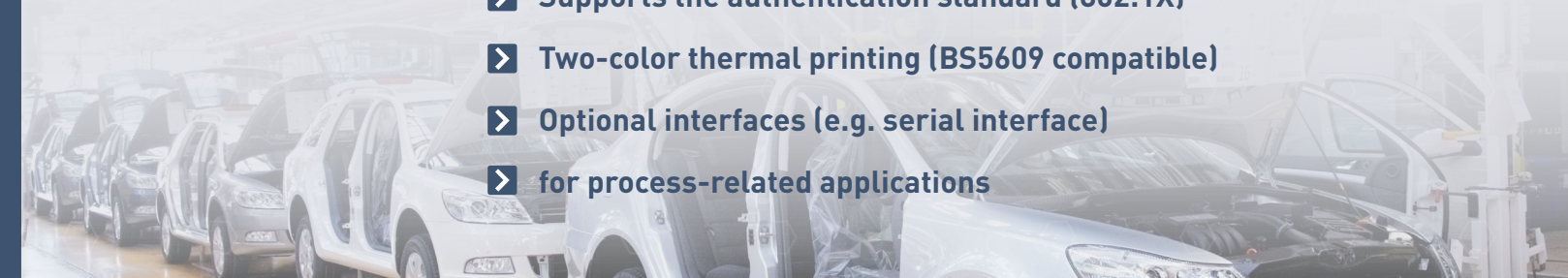
**THE RIGHT PRINTER
FOR EVERY
AUTOMOTIVE APPLICATION**

FIELD OF APPLICATION

- Storage Slips and Labels
- Production Accompanying Papers
- Two-Color Product Labels and
- Mobile Applications

HIGHLIGHTS / FEATURES / SPECIAL ATTRIBUTES

- Adaptable to customer-specific systems
- Compatible with: IGP, PCL5, IPDS, ZPL II, PDF® and more
- Processing multiple emulations simultaneously
- Supports the authentication standard (802.1X)
- Two-color thermal printing (BS5609 compatible)
- Optional interfaces (e.g. serial interface)
- for process-related applications



THE RIGHT PRINTER FOR EVERY AUTOMOTIVE APPLICATION



Storage Slips and Labels, Shipping Documents, GTL and More



When it comes to production-related warehousing, the focus is on just-in-time handling. Spare parts and production materials must be labeled quickly and reliably. Microplex thermal printers with print widths from **4 inches to 8 inches** are used for printing storage labels. You can output data from different systems in different printer languages on one printer. Printer options such as rewinder, tear-off edge and cutting knife are available for effective further processing.

In a specific application, for example, **Labelpoint data** is extended to print modern **2D barcode labeling**. The data are generated with the help of a specially designed software and sent to the printer. Especially important is the support of the proprietary communication protocol, which provides feedback from each single print page **[XT-Printcon]**.

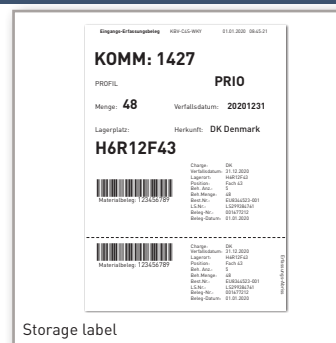
Both the Labelpoint emulation (formerly **Markpoint**) and the XT-Printcon communication have been adapted to the special customer requirements in the firmware of the printer.

Other applications include **PCL5 print data**, which must be printed on labels made of cardboard or foil in a wipe and scratch resistant manner. The long-term legibility of the labels is crucial here. Feedback signals to the system are sent via i.e. the serial interface.

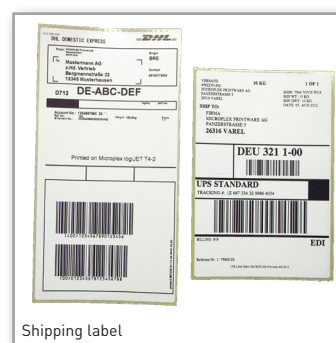
When printing **shipping labels**, readable barcodes are essential. By using a Microplex printer you increase your process reliability. Barcodes are always printed with sharp edges and high contrast in the optimal running direction, so that incorrect readings and the associated additional effort are avoided. Benefit from the robust reliability of the Microplex printers for smooth multi-shift operation, high availability and short downtimes for material changes.

Shipping labels are often created using ERP systems such as **SAP®** providing data suitable for laser printers (**PCL5**). Microplex printers support this emulation and can print PCL5 data immediately. There is no need to change the software. The Microplex printers support barcode printing under PCL5 with the emulation of the so-called **JetCAPS** module, which provides barcode commands for PCL5.

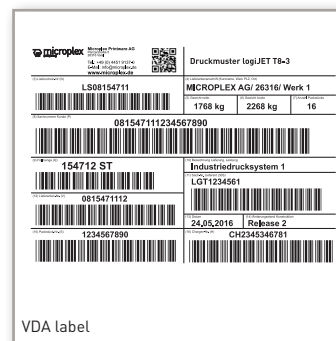
8-inch printers from Microplex are used for **VDA** (similar to **ODETTE**, **GTL**) and **KLT** (similar to **small GTL**) labels. Thanks to the printing width, the 210 mm (A5) wide labels can be processed across in the optimal orientation (in the direction of paper movement) and thus have the best possible print quality. Configuration, monitoring and service (e.g. firmware update) are conveniently carried out via the network with the help of a software tool.



Storage label



Shipping label



VDA label

Production Accompanying Papers



- A fast first page
- More than 40 emulations available
- Status feedback and GPIO interface

When printing production-related documents accuracy is required. No document may be missing, no document may be printed twice. To ensure this, the Microplex printers have feedback and control interfaces. Via **SNMP** or **status out** channels, the software can provide information about the printer status and query the progress of the print jobs. The printer can be precisely controlled via an electrical **GPIO interface**. This ensures that the right documents are printed in the right place at the right time.

The more than 40 printer emulations ensure that the print data are printed reliably, that barcodes are readable and that print formats are controlled correctly.

This is where our thermal printers as well as our cut sheet laser printers come into place. For example the SOLID 52A4. This A4 single sheet laser printer is compatible with the frequently used thermal printer emulations such as **IGP-10**, **ZPL** etc. as well as **line printer emulations** such as **IBM Proprinter**, **Epson ESC**, **MT-600 / MT40** or **terminal protocols** such as **TN3270**. Previously used line printers are being replaced by fast laser printers with high print quality without having to adapt the application.

Any necessary adaptations are implemented by the Microplex development department in the firmware of the respective printer.



Production-related documents



SOLID 52A4

Two-Color Product Labels and Mobile Applications



- Compatible with **PCL5** laser printers
- Two-color thermal printing with the logiJET TC8, compatible with **BS5609**
- Mobile thermal printer for special applications

The logiJET TC8 supports you in printing two-color hazardous warning labels. The connection to i.e. **SAP®** is just as easy to implement using PCL5 emulation as printing **BS5609** compliant GHS labels. In the automotive industry, the logiJET TC8 is used in a SAP® environment to create labels for flammable engine fluids in accordance with **GHS**.

With the logiJET TM8 or logiJET TM4 you get a mobile label printer that offers you maximum flexibility for logistics processes in mobile use. So you have the choice between the standard stationary use via a 230 volt cable, whereby the printer can be permanently connected to the company network. Or you can use the label printer on the move thanks to the **battery supply**. Depending on the application, 12-volt, 24-volt, 36-volt or 48-volt batteries are used.

These printers are used e.g. on forklifts and mobile work vehicles. Here you benefit from the low energy consumption (thermal printing) and the ability of the printer to process several printer languages at the same time. With a printing system e.g. **PCL5 data**, **IGP data** and **Kyocera Prescribe data** are **processed simultaneously**. This means that, despite the complex variety of data, only one printing system is required. Status messages are sent via the serial interface, which is still used in various mobile applications in automotive companies.



GHS labels



Mobile thermal transfer printer logiJET TM4

Support of IEEE 802.1X Authentication Protocol

- Fully compliant to the **IEEE 802.1X** standard
- Suitable for **LAN** and **WIFI** connections
- Available for **all Microplex printers with the latest controller technology**

Modern security standards in the highly innovative automotive industry increasingly require advanced security mechanisms. When registering printer clients in the internal network, customers often rely on authentication using authentication servers according to **IEEE 802.1X**.

Microplex printers with the latest controller technology support this authentication method. The necessary settings and the uploading of the certificate are carried out on the internal website of the respective printer.



Highlights at a Glance

- Adaptability to customer-specific systems
- Compatible with various automotive-specific communication protocols like the authentication standard **IEEE 802.1X** and **SNMP**
- Support of mixed data streams (e.g. **PCL5**, **ZPL**, **IGP**, **PDF**)
- Thermal & laser printer compatible with **PCL5**, **IGP**, **Labelpoint**, ...
- Optional interfaces (e.g. serial interface) for process-related applications
- Replacement of line printers with modern printing technology, without adjustments to the application
- Two-color thermal printing, **BS5609** compatible