



driving fun with clear mark(ing)

Dependable to protect original parts- ink jet alphaJET (CIJ) is marking automotive components

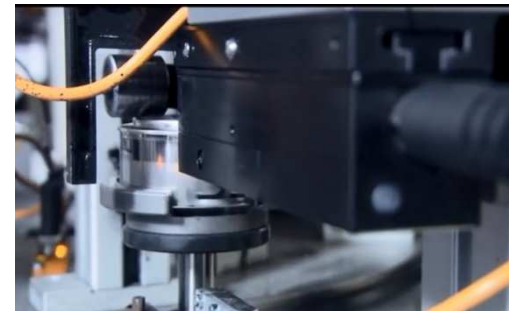
If the individual parts were not market, service, quality assurance, traceability and anti-counterfeiting protection for spare parts would not be possible. Depending on size and model, cars today have more than 10,000 parts and many hundred meters of cable.

Safe costs and secure your production reliability with the continuous ink jet alphaJET.

Zahlreiche Hersteller und Zulieferer der Automobilbranche setzen auf KBA-Metronic mit der Erfahrung und dem Know-how in der Entwicklung und Herstellung von Kennzeichnungssystemen.

No car will run without marking
Quality assurance systems ensure that no car without markings rolls off the assembly line. Without these markings, it would be impossible to determine exactly when and where a part was manufactured in the highly interconnected and tightly integrated automotive supply chain.

If a lot is subsequently found to be defective, the car manufacturer can issue a vehicle recall and have the parts replaced at a service center. Marking also provides anti-counterfeit protection, which is important because imitation parts of inferior quality can easily tarnish brand reputation.



(photo source: Henn, AT):
inkjet marks barcode on hose connections
within the production line

*In the smart factory,
it is essential that
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identified.*



Standard product coding:

- 1D and 2D bar codes (for example, EAN Code, Data Matrix Code)
- alphanumeric texts
- simple to complex graphics and logos

The production facility, time stamp, lot number and similar information can be stored, for example, in a compact data matrix code (DMC) or in a dot code.

The ink makes the difference

- Standard inks based on MEK (methyl ethyl ketone)
- Ethanol-acetone
- ethanol
- pigmented inks
- PVC inks
- and a number of special inks.

By using special types of ink which have high resistance to gasoline, Freon and high temperatures, inkjet marking systems can now be used in a much broader range of applications. Inconspicuous marking using UV-readable ink can be applied as proof of authenticity.

„First we apply a white background on a part with an alphaJET series printer and then we print a data matrix code (DMC) on top of it to achieve a high contrast and guarantee traceability.“

describes a carmaker

Fit for Industry 4.0

In an Industry 4.0 environment, workpiece marking becomes even more important.

In the smart factory, it is essential that every part can be identified. A reader on a machining center detects the marking and then “knows” how to process the part.

The legibility of the marking must be guaranteed under any conditions, and that places increased demands on resolution and adhesion. Even parts with small dimensions must be marked.



alphaJET-Technologie

Contact-free printing with continuous ink jet is a proven system for applying variable data directly to the product. It offers users a high degree of flexibility and delivers accurate print results.

Its ability to handle various inks makes this solution a versatile coding technology which is suitable for a range of different materials.

Even flexible surfaces can be printed precisely without back pressure.

One minor feature, which appears insignificant at first glance, is a real advantage on fully automated production lines: The alphaJET evo can be started up externally from the production line control system, eliminating the possibility of a false start on the line caused by the operator forgetting to turn on the printer.

To fulfil different requirements our portfolio includes high performance systems for complex or special applications as well as simplified systems for standard applications.

The components are configured in such a way that the user gets the best solution for his application.

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CODING IS OUR PASSION

