Electric and Electronics

Marking and Coding of Electrical Systems and Electronics Parts

PCBs, micro-controllers (chips), light bulbs (lamps), plugs, fiber optics, diodes, cables—the smallest parts often have to be marked in the electrical and electronics industry. Marking Solutions inkjet printers code products at a font height down to 0.8 mm. In addition, Marking Solutions printers work with contrast inks (pigmented or soft-pigmented inks), which guarantee that the font is raised from the background, which makes it clearly legible. The camera verification systems from Marking Solutions monitor fixed and variable data, text segments and barcodes.

Typical Markings

- Batch numbers/lot numbers
- Characters and text
- Company logos
- Meter marking
- 1D and 2D codes (DataMatrix codes, barcodes, QR codes, etc.)

Materials

- Electronic parts from the private and industrial sector
- Electronics components
- Coated, alloyed or painted metals
- Plastics
- Cables and wires
- Cardboard/(packaging)
- PCBs

Examples of Typical Applications

- Markings on the smallest electronic parts (microprints)
- Using pigmented inks (opaque inks) for high contrast on different colored backgrounds
- Special inks for the best durability, e.g. heat-resistant inks
- Chemical resistance
- Traceability/track and trace/identification
- Protection against product piracy
- Comprehensive software and hardware accessories for easy and flexible integration of a printer in product lines

Typical Print Monitoring Tasks

- Print monitoring/verification/image processing of various printouts
- Reliable monitoring of inkjet fonts (printouts of small character inkjet printers)

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