

microPrint



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1 microPrint

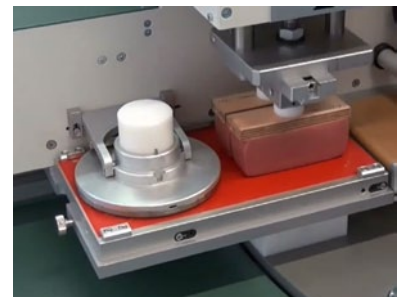
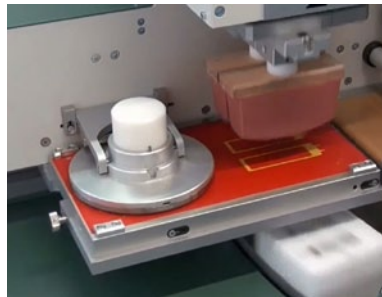
We, microPrint LC GmbH, develop and produce machines and facilities that allows our customers to pad print their products.

1.1 Pad printing

1.1.1 Concept

Pad printing is a method that allows the printing of nearly all body shapes and materials, on almost any type of surface structure.

The print images are minute recesses on a plate that is also called a “cliché”. During printing, ink is applied to the cliché where it flows into the recesses of the print image. An either ring-formed or straight edge, the “doctor blade”, removes all excessive ink. Only the ink in the recesses remains. The next step involves silicone pads after which this method received its name. The pad takes up the ink from the recesses and is then moved to the item that is to be printed. Here the pad transfers the ink to the object. Pad printing has the great advantage that the pad can be deformed during print transfer.



1.1.2 Machine Development

**Hand-operated
pad printing machines**



**Pneumatic
pad printing machines**



**XYZ programmable
pad printing machines**

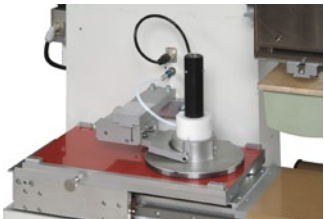


1.2 Innovations



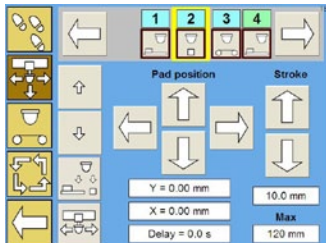
Pad cleaning

The founder of microPrint developed the first pad-printing machine with fully integrated automatic pad cleaning. Today, most pad printers are sold with pad cleaning units.



Viscomat

microPrint was the first company to integrate a fully automatic direct viscosity control in a pad printer. Its method based on a compact integration in the ink cup remains unique worldwide.



Touchscreen

Early on, microPrint's R&D department recognized the benefits of using touchscreens. As a result, they designed the very first pad printers employing this technology. Today, all of microPrint's pad printers are equipped with a touchscreen, except for the least expensive pad printing line.



Linear motor

microPrint pioneered the first pad printers with linear motors. Today, microPrint is the market leader when it comes to linear motors in pad printing machines.



XYZ programming using touchscreen

First fully automated unit employing 100% touchscreen control:

- Setting up of pad printing machines
- Adjusting the print positions
- Regulating the ink viscosity



Network Connection

When it comes to connecting pad-printing machines to different networks (CanOpen, Profibus, Ethernet...), microPrint is once again in a leading position with various different printer types.



ecoCleaner

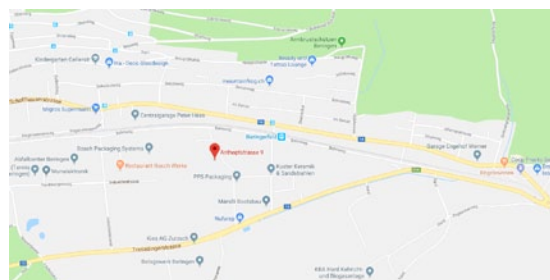
First fully automatic ecological cleaning unit for pad printing utensils with integrated recycling system based on nano-technology. Water-based, complying with today's safety and environmental regulations. Moreover, the maintenance costs are less expensive compared to other cleaning units. The units can be installed and operated in any room.

1.3 Location

Switzerland



Beringen



microPrint is located at the commercial area “Beringen”.



1.4 Production



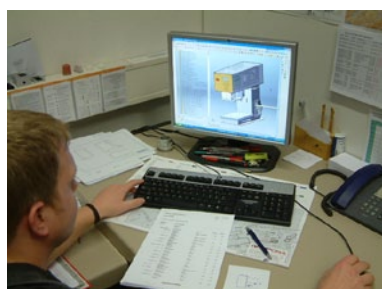
Sales



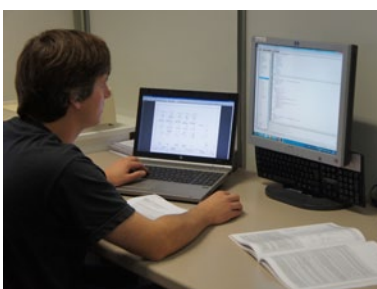
Administration



Development



Engineering and design



Software development



Production LCN Series



Production 5-Star Series



Production



Assembly plant



Assembly ecoCleaner



Spare parts warehouse



Shipping

1.5 Trade shows

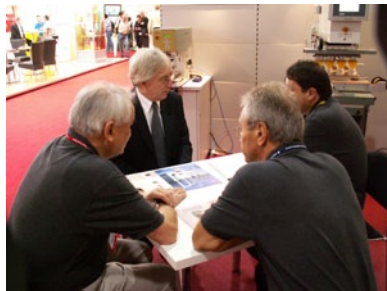
NPE Chicago USA



KMO Salzsulzen



Fespa Berlin



PSI Düsseldorf



K-Messe Düsseldorf



Telford England



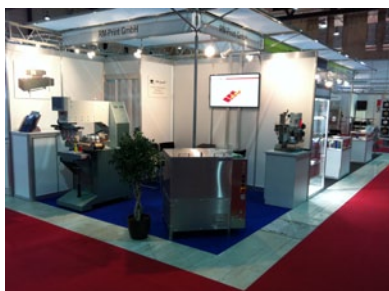
Plastpol Polen



Rumänien



SwissPlastic Schweiz



Fakuma Friedrichshafen



1.6 Available worldwide



2 Program

2.1 Pad printing machines



Smart 130



Smart 250



LCN 131



LCN 133



LCN 151



MS 130



MS 250



MS 350



MS 500



MSS 130



MSS 350



ML 350



ML 500



Modul 110



Modul 130



Modul 220



5star

2.2 Pad printing systems







2.3 Auxiliary equipment

2.3.1 NIR-drying



2.3.2 Flame pre-treatment unit



2.3.3 Cleaning unit (ecoCleaner osmeco)

Ecological cleaning unit for pad printing with integrated recycling system based on nano-technology. The units can be installed and operated in any room.



3 References



Axis



Ericsson



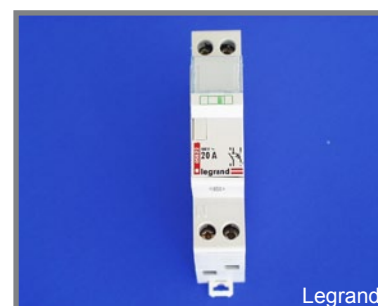
Schmid



Braun



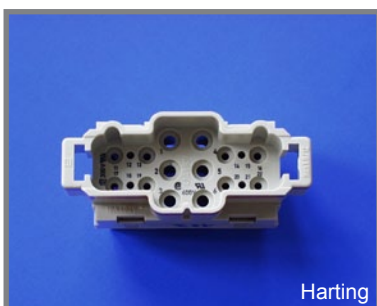
Braitrim



Legrand



Braun



Harting

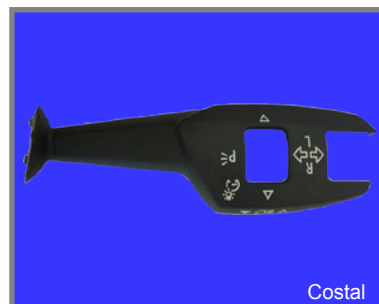


Caran d'ache



Titleist





Costal



ABB



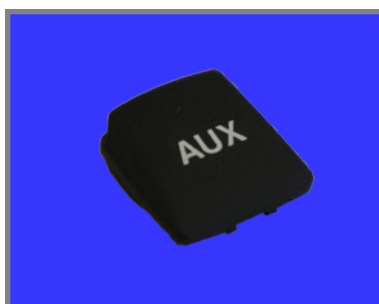
Braun



Braun



Merit Medical

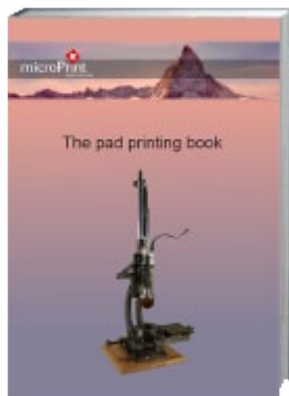


ABB, Braun, Lego, Ericsson, Caran d'ache, Battenfeld EMI, BGI, Sarplast, Titleist, Merit Medical, Baxter Medical, Teledyne, RKT, Harting, Provertha, Taycon usw.

4 Further documents

4.1 Documents about pad printing

The pad printing book



<http://www.microprint.ch/pdf/The-pad-printing-book.pdf>

Pad printing catalog



<http://www.microprint.ch/pdf/Padprintingcatalog.pdf>

4.2 Website for pad printing

www.microprint.ch



microPrint website with much more information and demo videos.