



microPrint
made in switzerland

MAXIMUM COMPACTNESS IN PRODUCTION



LCN Line

LCN 131 | LCN 151



Single-
colour



Max. cup size
140 mm



X-Y position
adjustable by means
of cliché holder



-



Automatic
viscosity control



-

LCN Line

LCN 131 | LCN 151

The LCN line features compact pneumatic machines for single-colour pad printing that are equipped with closed inkwells. LCN line machines are suspended above the print object. Using the adjustment option on the cliché holder, the X and Y directions and also the angle of the printing position can be adjusted precisely.

The integrated pad cleaning system works at the same height as the cliché slide, thereby reducing the travel distance of the pad. This special arrangement makes the cliché, pad and cleaning tape readily accessible and thus very easy to reach.

Operation is performed through the graphic monochrome touchscreen display.

The special feature of this machine series is its sublevel printing function, which also allows very large parts to be printed.

OUR ADVANTAGE:

Good accessibility

Large parts

Compact machine

Viscosity control

Pad cleaning

Industrial Ethernet



Images: Sample configurations

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Applications

The LCN line machines were designed as a single-colour printing solution to be installed into larger systems. Their compact design reduces the space required for pad printing within the overall system – without compromising on accessibility. Large components can be printed as the suspended machine is capable of sublevel printing. A special version also offers parallel printing of several N-up layouts at once.



Inkwell

The LCN line prints a single colour and features a closed inkwell. The maximum cup size is 140 mm in diameter. A pneumatically reinforced cup holder is also available if required. In addition, ink viscosity is regulated automatically with the optional microPrint Viscomat. A special version enables the use of up to three cups so that several N-up layouts can be parallel printed.



Pad positioning

The pad guide is fixed in place and can be roughly adjusted to the printing position by freely positioning the machine over the print object. Using the adjustment option on the cliché holder, the X and Y directions and also the angle of the printing position can be adjusted precisely. With the standard base, the height of the machine above the print object can be freely adjusted.



Operation, software and interface

The pad printing machine features a digital interface that enables reliable communication with other devices and control systems. As a result, the machine can be seamlessly integrated into existing production environments. Profinet, Ethernet/IP or EtherCAT are also available as options for system communication, which enables complete remote control of the printing machine.



Accessories

For standalone operation within a system, we recommend at least pad cleaning control and the Viscomat. The pad cleaning control function informs the operator when the end of the cleaning tape is reached. The optional Viscomat automatically monitors and regulates the viscosity of the ink during the printing process. Both functions guarantee a high, consistent quality of the printing process over long running times.



Further additional equipment and adaptations available on request: info@microprint.ch

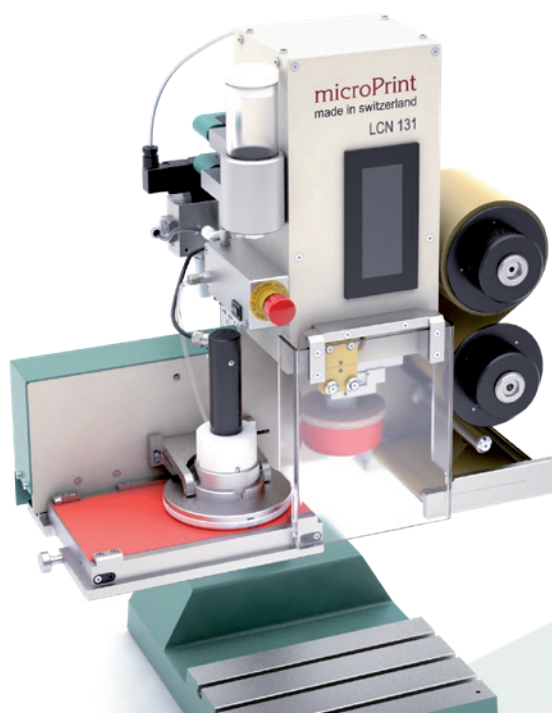


TECHNICAL DATA OVERVIEW

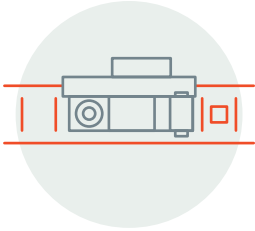
Machine series

LCN Line

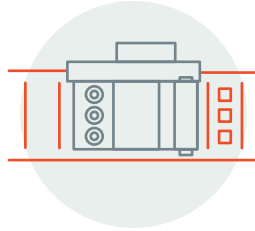
Machine types	LCN 131	LCN 151
Number of colours	1	1
Speed [cycles/h]	2,000/1,200 with pad cleaning	1,800/1,200 with pad cleaning
Drive – pad stroke	Pneumatic	Pneumatic
Cliché sizes max. [mm]	130 x 230 x 10/0.5	150 x 300 x 10/0.5
Ink cup [number x Ø in mm]	1x56 / 1x70 / 1x86 / 1x120	1x120 / 1x140
Print image max. [Ø in mm]	46 / 52 / 60/ 110	110 / 130
Pad stroke – force [N]	480	1,100
Pad stroke – travel distance max. [mm]	150	170
Pad cleaning	Integrated: 115 mm wide	Integrated: 138 mm wide
Control	Panasonic PLC	Panasonic PLC
Thinning system	optional: 1 connection	optional: 1 connection
Weight without base [kg]	approx. 32	approx. 61
Air consumption [l/min]	76	135
Power supply	110 – 240V, 50/60Hz	110 – 240V, 50/60Hz



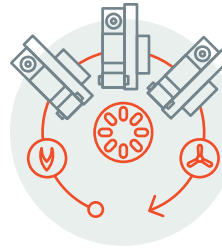
System options & details



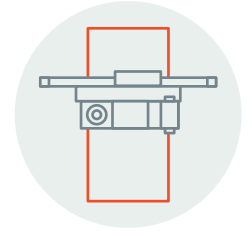
As part of an overall system
with conveyor belt



Special variant
for multiple uses

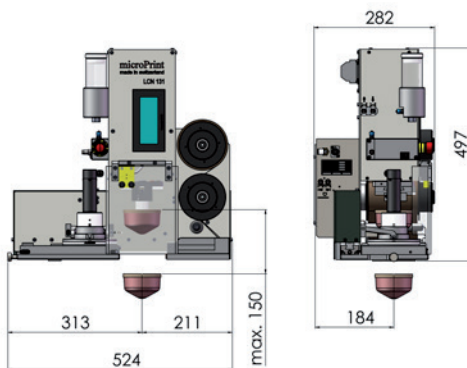


Rotary index table for
pre- & post-treatment

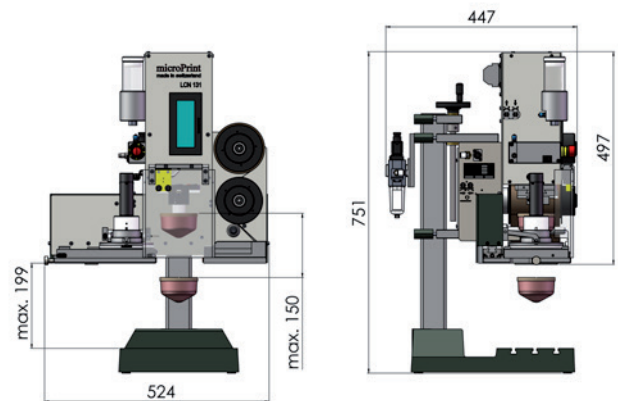


Printing on
large components

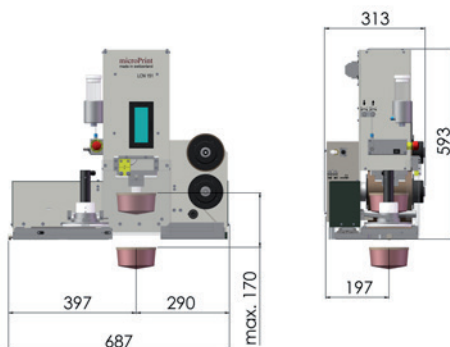
LCN 131



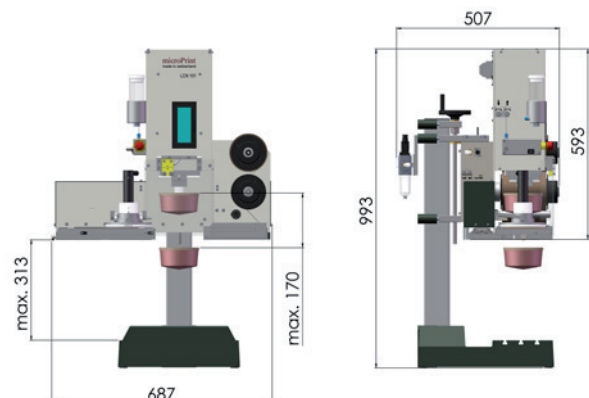
Download detailed
drawing as PDF file



LCN 151



Download detailed
drawing as PDF file



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Since 1995, **microPrint** has been at the forefront of pad printing technology, consistently setting new standards and revolutionising the industry. Our team of experts is dedicated to developing innovative solutions tailored to meet the unique requirements of our clients. With extensive configuration options and a commitment to customised solutions, we deliver the ideal solution for every challenge.

Discover the microPrint advantage.

OUR GOAL:

Precision

Versatility

Innovation

Customised solutions

Flexibility

Efficiency



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