



microPrint
made in switzerland

MAXIMUM ROTATION IN PRECISION



Single-colour



Max. cup size
120 mm



Tilting-head system
for vertical printing



-



Automatic
viscosity control



-

MSS line

MSS 60 | MSS 130 | MSS 130E

MSS line

MSS 60 | MSS 130 | MSS 130E

The MSS line is equipped with a tilting head which can be used flexibly, depending on variant: In the pneumatic version, the pad can be turned by 90°, while for the electric version, the pad's angle can be adjusted freely between 0° and 90°. This enables the machine to print on vertical surfaces, especially in production lines where the print object cannot be turned or can only be turned with a lot of effort.

The pad printing machines can be operated very conveniently from the rear side, guaranteeing comfortable handling and optimal accessibility. It is not necessary to pull out or turn the machine.

In the pneumatic version, position correction is performed mechanically via the cliché holder.

For the electric variant, the print position is adjusted electronically using a display.

Multiple image positions on the cliché can be controlled in this way. In addition, the height, the contact angle and the length of time for which the pad remains on the product can be flexibly adjusted.

Various special versions are also available, including the particularly compact MSS 60.

The system is controlled intuitively via a user-friendly touchscreen display.

OUR ADVANTAGE:

Vertical printing

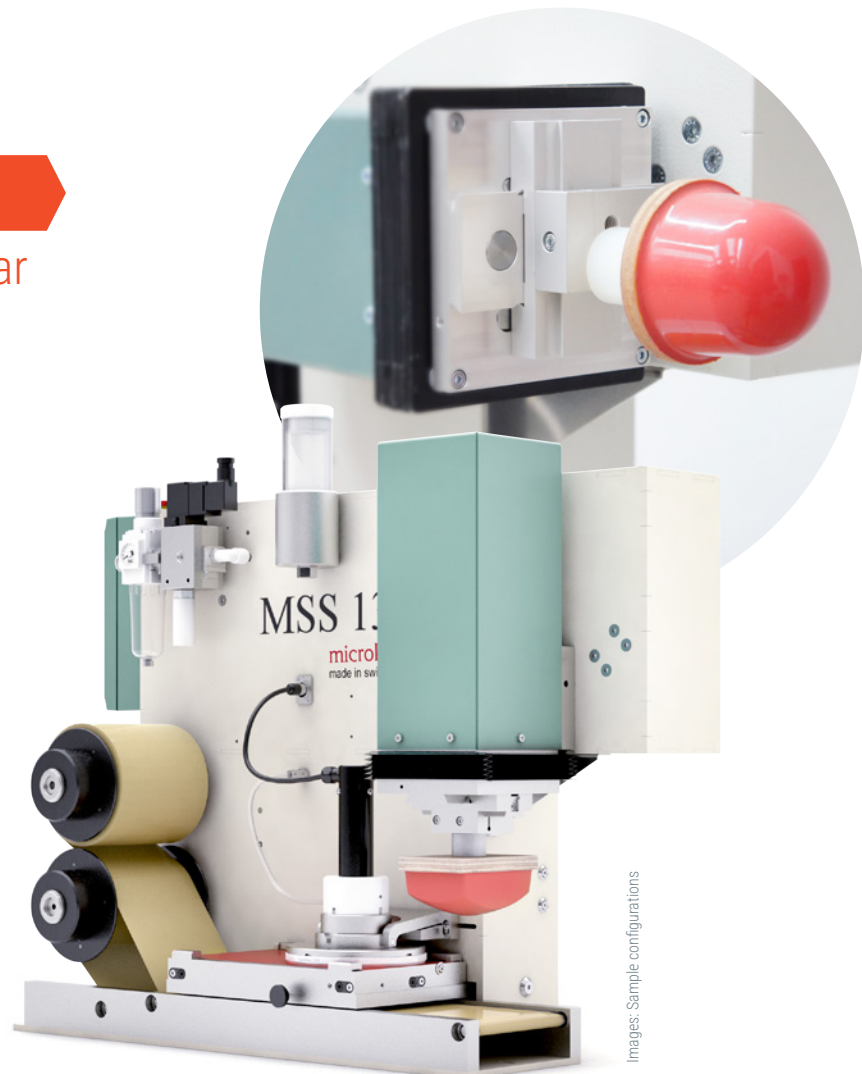
Operable from the rear

Mirrored variant

Viscosity control

Pad cleaning

Industrial Ethernet



Images: Sample configurations

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Applications

The MSS line has been specially designed for systems where the printing piece cannot be turned and horizontal printing is required – for example, on car brake linings which are transported on a conveyor belt and have to be printed with precision on their front face.

Unlike the competition, the MSS can be completely retooled and operated from the rear side.



Inkwell

The MSS line prints a single colour and features a closed inkwell. The maximum cup size is 120 mm in diameter. A pneumatically reinforced cup holder is available if required. Ink viscosity is regulated automatically with the optional Viscomat. A special variant enables the use of up to three ink cups, in order to print several N-up layouts at once or in multiple colours.



Pad positioning

In the pneumatic version, position correction is performed mechanically via the cliché holder. The fixed turning angle of the pad of 90° can be fine-tuned within a limited range with the aid of an optional rotary button.

In the electric variant, the print position is adjusted electronically via a display. Several image positions on the cliché can be controlled in the process. The height, contact angle and the time for which the pad remains on the product can also be adjusted freely and individually.



Operation, software and interface

Operation is performed through a graphic touchscreen display. Using an extension, this display can also be fixed on the machine's exterior if required. Printing parameters can be adjusted in simple steps with the help of user-friendly visual representations. In addition, the settings can be adjusted. The MSS line is equipped with a digital interface for communication with the system. The larger tilting-head machines can be optionally equipped with Industrial Ethernet or OPC-UA.



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 regulates the viscosity of the ink during the printing process. Both functions serve to guarantee a high, consistent printing quality over long running times.



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

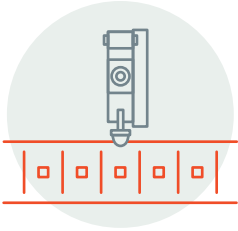
TECHNICAL DATA OVERVIEW

Machine series

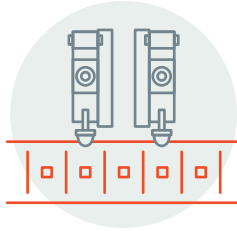
MSS Line

Machine types	MSS 60	MSS 130	MSS 130E
Number of colours	1	1	1
Speed [cycles/h]	1,800/1,200 with pad cleaning	1,800/1,200 with pad cleaning	1,800/1,200 with pad cleaning
Drive	pneumatic	pneumatic	electric with servomotor
Cliché sizes max. [mm]	60 x 120 x 10	130 x 230 x 10/0.5	130 x 230 x 10/0.5
Ink cup [number x Ø in mm]	1x45 / 1x56	1x86 / 1x120	1x86 / 1x120
Print image max. [Ø in mm]	35 / 46	76/110	76/110
Pad stroke – force [N]	170	480	1,200
Pad stroke – travel distance max. [mm]	75	120	110
Pad projection max. [°]	90	90	0 – 90
Pad cleaning	Integrated: 50 mm wide	Integrated: 115 mm wide	Integrated: 115 mm wide
Control	Panasonic PLC	Panasonic PLC	Beckhoff
Program memory size	–	–	200
Interfaces	digital interface	digital interface	optional: EtherCAT, Profinet, Ethernet IP, OPC UA
Thinning system	Special variant	optional	optional
Weight without base [kg]	approx. 18	approx. 60	approx. 135 / Switchboard display approx. 35
Air consumption [l/min]	20	115	10
Power supply	110 – 240V, 50/60Hz	110 – 240V, 50/60Hz	3P, 400/480V, 50/60Hz

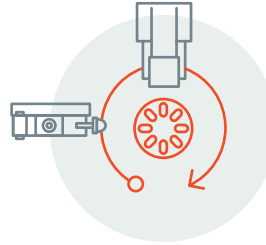
System options & details



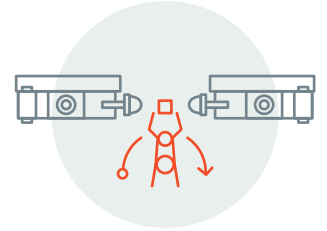
As part of an overall system with conveyor belt



Two-colour printing with mirrored machine

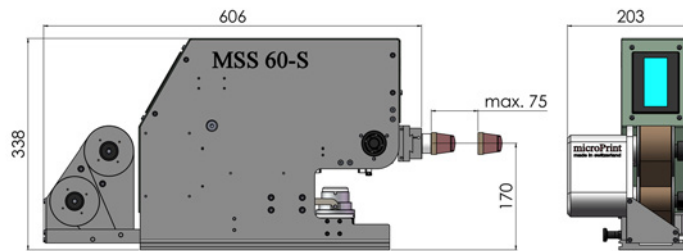


Rotary indexing table in combination with MS line



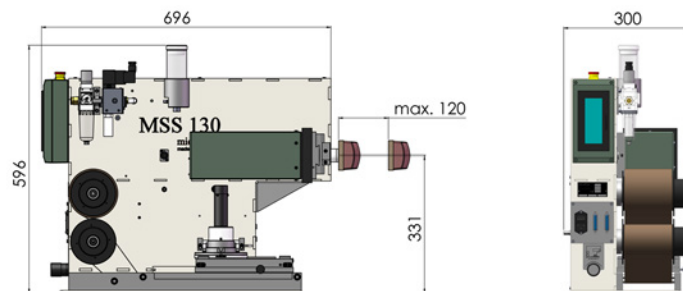
Robot loader with two opposing machines

MSS 60

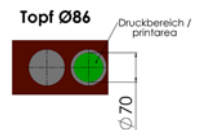
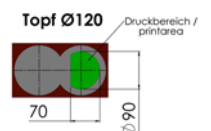


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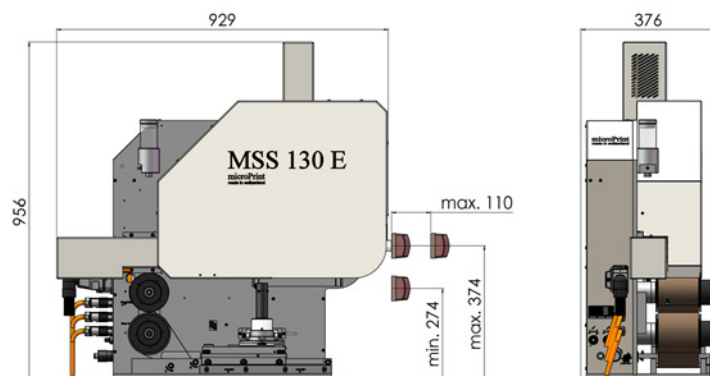
MSS 130



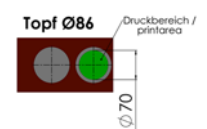
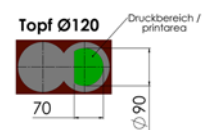
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MSS 130E



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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

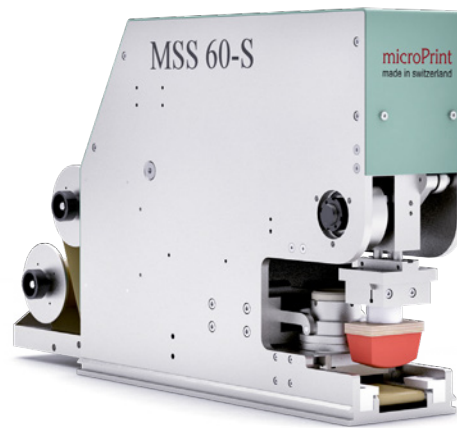
Versatility

Innovation

Customised solutions

Flexibility

Efficiency



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