



microPrint
made in switzerland

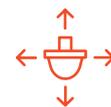
MAXIMUM RELIABILITY IN PRODUCTION



Up to 4 ink cups
or transverse
doctoring units



Max. cup size
140 mm



Pneumatic & electric
pad shuttling



Electric rotation
around 1 axis



Automatic
viscosity control



Camera
control

MS Line

MS 130 | MS 150 | MS 250 | MS 300

MS Line

MS 130 | MS 150 | MS 250 | MS 300

The MS line includes conventional pneumatic pad printing machines which can print up to four colours. It is available with either an open or closed inkwell, and as a transverse doctoring unit. The printing position is mechanically adjusted on the machine. The system offers manifold possibilities for expansion: among other things, it can be equipped with pneumatic or electric single-axis rotation or a sliding shuttle for the print object.

Operation is performed through the graphic monochrome touchscreen display.

One special feature of this line is its ability to extend and retract the pad printing head.

This makes the holder readily accessible, which guarantees easy and safe handling of the printing piece, as well as convenient visual inspection of the printed image on the piece while still inside the holder. There is also sufficient clearance for a loading robot.

OUR ADVANTAGE:

Efficient 24/7 operation

Mechanical positioning

Viscosity control

Digital interface

Pad cleaning

Robot loading



Images: Sample configurations

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Applications

Ideal for both simple and specialised printing tasks, the MS line can be used as a manual workstation or integrated into a system. As it is possible to mechanically position the machines internally, they can also be used in systems without a cross table. Autonomous operation is ensured through monitoring of the cleaning belt and the microPrint Viscomat. The retractable pad printing head enables easy loading of the machine by robot. The print object can be turned or rolled either electrically or pneumatically. For printing longer images, either an oval cup or a transverse doctoring unit can be used.



Pad positioning

The pad's position is adjusted pneumatically along the Y axis. For ink uptake and distribution, it can also be mechanically positioned internally. The cliché holder is used to attain the pad's X position and to adjust its angle. The pneumatic 3-colour pad shuttle always ensures a centred transfer of the print image, regardless of whether two or three colours are used. The electric pad shuttle can transfer up to four colours at any X position. Depending on requirements, the machine can work with either a combination of pads or a single pad.



Operation, software and interface

Operation is performed through the graphic monochrome touchscreen display. For larger systems, this can also be extended and fixed on the outside. Printing parameters can be set in simple steps with the help of user-friendly visual representations. The individual applications can be saved. The MS line is equipped with a digital interface for communication with a larger system.



Inkwell

Printing of up to four colours is possible using 70 mm doctoring cups. When using maximum cup size of 140 mm, the number of colours is reduced to two. The machine also offers various intermediate sizes as well as combinations of different cups, oval cups, transverse doctoring units or open systems. The version for multiple colours can be ordered with a single large cliché or with two separately adjustable cliché holders. The travel length of the cliché can be mechanically adjusted and allows the use of different cliché sizes. The microPrint Viscomat autonomously controls the viscosity of the ink.



Parts handling

It is possible to design the parts handling in a versatile manner. Along with pneumatic rotation and electric rotation around one axis, the use of pneumatic and electric part shuttling is also possible. A pneumatic unwinding device with a toothed rack allows printing on round objects. The print object can be fixated either with pneumatic clamps or using a vacuum. If desired, a parts recognition can be implemented here by means of vacuum fixtures or sensors.



Accessories

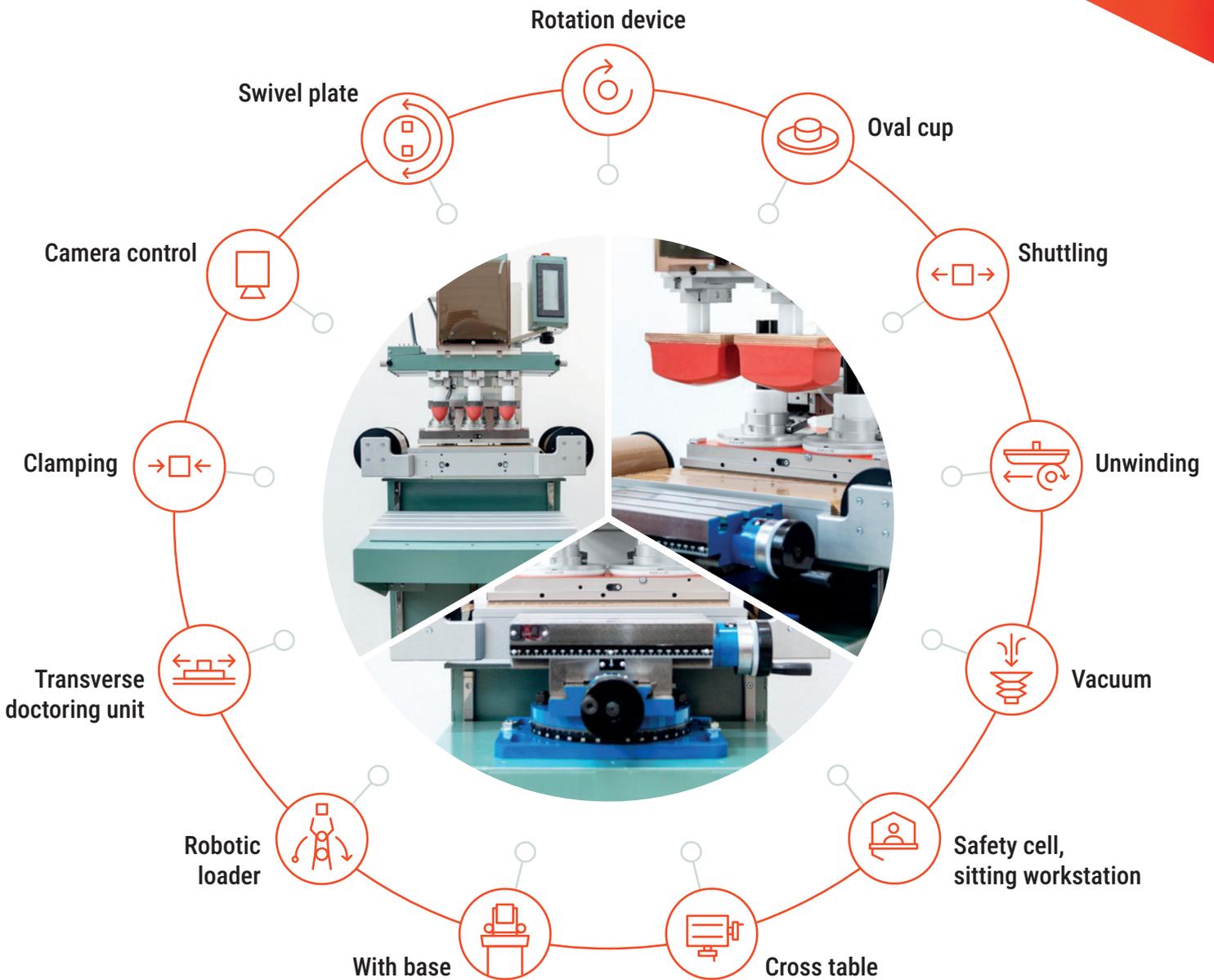
For autonomous operation inside a system, we recommend monitored pad cleaning and the use of the microPrint Viscomat. To accelerate production, the MS line can also be equipped with a swivel plate with two holders or with a pneumatic rotary indexing table with six holders for rapid printing in two colours. Available versions include a table-top model, a free-standing model on a base or with a safety cell. Part shuttling can also be used to integrate preparation and finishing work as well as camera controls into the printing process.

ONE SOLUTION – ENDLESS POSSIBILITIES

Are you looking for a cost-efficient solution to meet your needs?
The MS line offers a broad range of configurations to meet your
specific needs, ensuring maximum precision, flexibility and versatility.



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



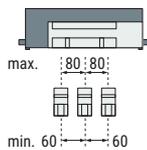
MS 130 | MS 150 | MS 250 | MS 300

Cup and cliché combinations

We provide various combinations of cups and clichés to meet all requirements, ensuring our machines are perfectly adapted for each application. If a part shuttle is used, further combinations as well as a larger number of cups can be used.

MS 250

Pneumatic pad shuttling FT 2-3



Cliché:

260 x 250 mm

Cup:

3x ø70 mm



Cliché:

260 x 250 mm

Cup:

2x ø120 mm



Cliché:

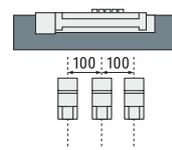
2x 130 x 250 mm

Cup:

2x ø120 mm



Electric pad shuttling MFT 250



Cliché:

260 x 250 mm

Cup:

4x ø56 mm



Cliché:

260 x 250 mm

Cup:

3x ø70 mm



Cliché:

260 x 250 mm

Cup:

2x ø120 mm



Cliché:

2x 130 x 250 mm

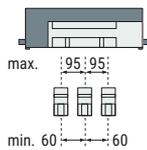
Cup:

2x ø120 mm



MS 300

Pneumatic pad shuttling FT 2-3

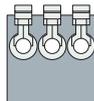


Cliché:

300 x 300 mm

Cup:

3x ø86 mm

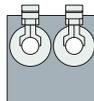


Cliché:

300 x 300 mm

Cup:

2x ø140 mm

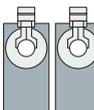


Cliché:

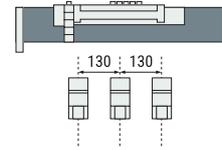
2x 150 x 300 mm

Cup:

2x ø140 mm



Electric pad shuttling MFT 350

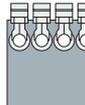


Cliché:

300 x 300 mm

Cup:

4x ø70 mm

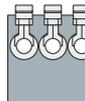


Cliché:

300 x 300 mm

Cup:

3x ø86 mm

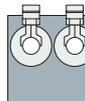


Cliché:

300 x 300 mm

Cup:

2x ø140 mm

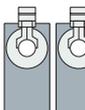


Cliché:

2x 150 x 300 mm

Cup:

2x ø140 mm



TECHNICAL DATA OVERVIEW

Machine series

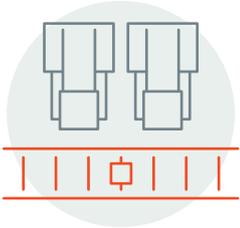
MS Line

Machine types	MS 130	MS 150	MS 250	MS 300
Number of colours	1	1	1–4	1–4
Speed [cycles/h]	1,600/1,200 with pad cleaning	1,300/850 with cleaning	1,500/1,000 with pad cleaning	1,300/850 with cleaning
Drive – pad stroke	pneumatic	pneumatic	pneumatic	pneumatic
Cliché sizes max. [mm]	130 x 250 x 10/0.5	150 x 300 x 10/0.5	260 x 250 x 10/0.5	300 x 300 x 10/0.5
Cliché sizes max. open [mm]	120 x 120 x 10/0.5	on request	250 x 120 x 10/0.5	on request
Cliché sizes for transverse doctoring unit max. [mm]	–	–	100 x 430 mm, on request	100 x 500 mm, on request
Ink cup [number x Ø in mm]	1x56 / 1x70 / 1x86 / 1x120	1x56 / 1x70 / 1x86 / 1x120 / 1x140	4x56 / 3x70 / 2x86 / 2x120	4x56 / 4x70 / 3x86 / 2x120 / 2x140
Ink cup oval [mm]	–	–	237 x 68	237 x 68
Print image max. [Ø in mm]	46 / 52 / 60 / 110	46 / 60 / 76 / 110 / 130	46 / 52 / 60 / 110	46 / 60 / 76 / 110 / 130
Pad stroke – force [N]	480	1,100	750	1,100
Pad stroke – travel distance max. [mm]	150	150	150	150
Pad projection max. [mm]	125	98	125	98
Pad cleaning	optional: 115 mm wide	optional: 138 mm wide	optional: 115 mm wide	optional: 138 mm wide
Control	Panasonic PLC	Panasonic PLC	Panasonic PLC	Panasonic PLC
Program memory size	optional: 100	optional: 100	optional: 100	optional: 100
Interfaces	digital interface	digital interface	digital interface	digital interface
Thinning system	optional: 1 connection	optional: 1 connection	optional: 1–4 connections	optional: 1–4 connections
Weight without base [kg]	approx. 75	approx. 97	approx. 75	approx. 109
Air consumption [l/min]	104	125	110	125
Power supply	110 – 240V, 50/60Hz	110 – 240V, 50/60Hz	110 – 240V, 50/60Hz	110 – 240V, 50/60Hz

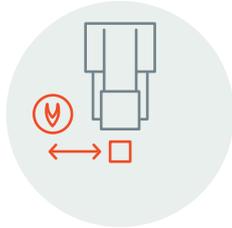
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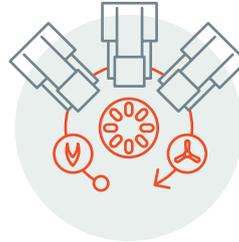
System options & details



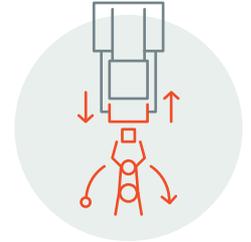
As part of an overall system with conveyor belt



Including preparation (flame treatment / corona)

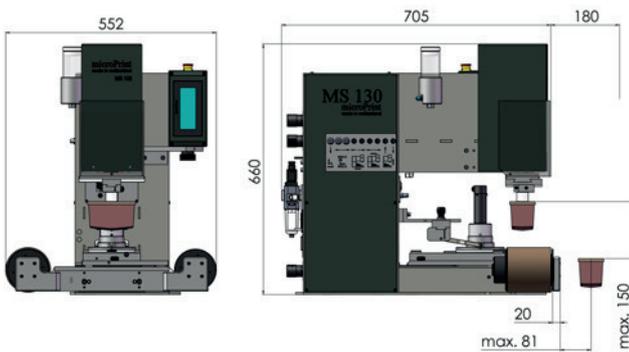


Rotary index table for pre- & post-treatment



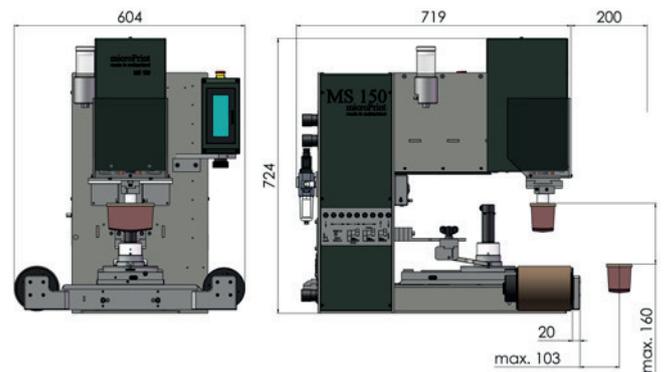
Robot loader

MS 130



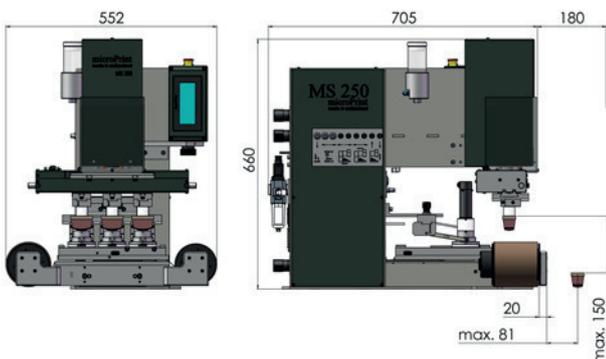
Download detailed drawing as PDF file

MS 150



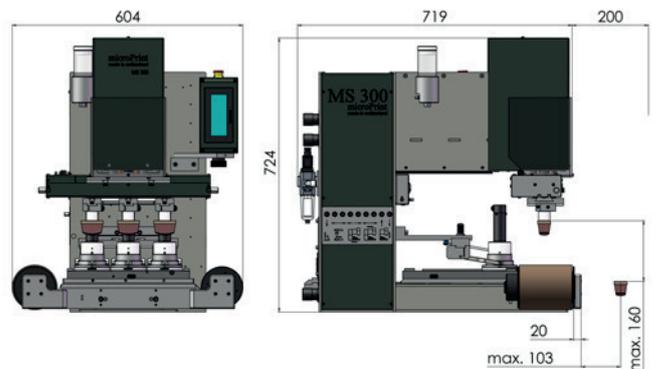
Download detailed drawing as PDF file

MS 250



Download detailed drawing as PDF file

MS 300



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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