

# MODUL SERIES

## INTELLIGENT LINEAR MOTOR CONTROLLED PAD PRINT SYSTEMS

The **MODUL SERIES** of pad printing machines from **microPrint** are programmable multi-color pad printing workstations that feature "hybrid" drive controls with linear motor and pneumatic controls. The **MODUL SERIES** come with fully integrated tape pad cleaning systems and **VISCOMATIC™** automatic ink viscosity control systems (optional). Both of these QC devices ensure trouble free production around the clock. The **MODUL SERIES** can be outfitted with various automation devices such as; servo part shuttles, servo race track indexers or servo controlled over and under pallet transport systems. Like all **microPrint** pad printing systems the **MODUL SERIES** can be outfitted with either ceramic or steel ringed magnetic ink cups. All **microPrint** machines use only top quality world class components and are built with unparalleled workmanship in Switzerland. **DECO TECH** is the exclusive North American distributor for **microPrint** and all **microPrint** machines are backed with a limited **3 YEAR FACTORY WARRANTY**.

## MODUL SERIES SPECIFICATIONS

	110	130	170	220
Printing capacity:	Up to 1,800/hr	Up to 1,800/hr	Up to 1,650/hr	Up to 1,500/hr
Drive:	Hybrid*	Hybrid*	Hybrid*	Hybrid*
Printing force:	290 N Max	750 N Max	1,750 N Max	3,000 N Max
Air supply:	5-6 bar (87 psi)	5-6 bar (87 psi)	5-6 bar (87 psi)	5-6 bar (87 psi)
Air consumption:	44L/min	78L/min	167L/min	270L/min
Control system:	PLC 24V	PLC 24V	PLC 24V	PLC 24V
Main voltage:	110 - 240 V 50-60Hz	110 - 240 V 50-60Hz	110 - 240 V 50-60Hz	110 - 240 V 50-60Hz
Control voltage:	24 VDC	24 VDC	24 VDC	24 VDC
Weight:	63 kg (139 lbs)	92 kg (202 lbs)	140 kg (309 lbs)	180kg (396 lbs)
Plate thickness:	0.5mm or 10mm	0.5mm or 10mm	0.5mm or 10mm	0.5mm or 10mm
Max plate size:	100 x 200mm	130 x 250mm	170 x 350mm	200 x 420mm
Max ink cup diam.	86mm (3.38")	120mm (4.72")	160mm (6.30")	200mm (7.9")
Dimensions:	Available upon request	Available upon request	Available upon request	Available upon request
Origin:	Switzerland	Switzerland	Switzerland	Switzerland

\*Hybrid drive has 2-axis linear motor control and pneumatic control for vertical pad stroke. You can also special order these, that are 100% master driven.



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- Multi-axis programmability from touch screen
- Dual-axis linear motor driven for extreme accuracy
- Touch screen controls with job memory storage
- Quick change magnetic ink cups with X/Y positioning
- Automatic tape pad cleaning device (optional)
- Automatic ink viscosity controls (optional)
- Automation accessories include:
  - Stepper programmable part shuttle device
  - Servo oval race-track indexer
  - Servo over & under tank-track indexer
- Swiss built with world class components



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solutions in pad printing™





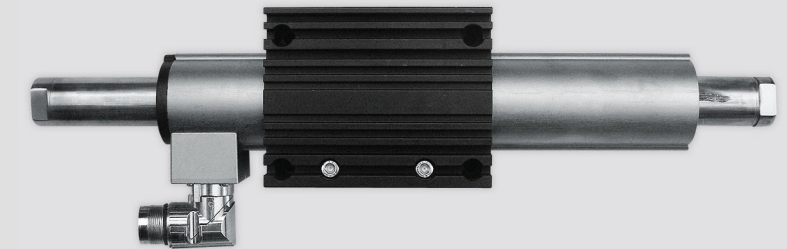
**MODUL 100/100LL** are the smallest pad printing machines in the **MODUL SERIES** and they are perfectly suited for high speed printing on small objects such as; golf balls, USB memory sticks, cell phone bodies & lenses, saw blades, pens, lighters, coins, surgical devices, electronic connectors and much more. The **MODUL SERIES** of machines are available with as many colors (print heads) as you need for your product decoration... The sky is the limit with this completely modular approach to system design.

The **MODUL 100** is a hybrid driven system with linear motor control for the ink cup/ cliché movement and the horizontal pad carriage motion (back and forth) and the machine is fully programmable and can pick up various images from the cliché/ printing plate. Furthermore on the **MODUL 100** model, the vertical pad stroke is controlled via precision pneumatics equipped with a linear encoder for accurate positioning and control. The **MODUL 100LL** (pictured above) is linear motor controlled in all three axis' for even faster performance.

The **MODUL** system pictured above features the **microPrint** servo driven oval track indexer with 14 stations. All **microPrint MODUL SERIES** machines are available with **VISCOMATIC™** ink viscosity control system and automatic tape pad cleaning system (see page 4 for more details).



**MODUL 110/130** are the mid-sized programmable linear motor indexed pad printing machines in the **MODUL SERIES** from **microPrint**. The **MODUL 110** and **MODUL 130** pad print systems are easily configured with multiple print heads and a variety of automation parts handling systems; pictured above is a 6 color **MODUL 130** system with a **microPrint** designed servo indexed conveyor system with over and under part transport. The nesting fixture/ docking pallets are precisely locked in place in each print station and this system also features a part turning device to rotate the parts during production. Pictured below is an 8 color **MODUL 110** system with servo driven oval track indexer with 20 stations. All **microPrint MODUL SERIES** machines feature Beckhoff PLC controllers with touch screen graphical interface for ease of operation and programming.



**LINEAR MOTOR CONTROLS** are truly revolutionizing the world of industrial motion control with their incredible speed, accuracy and versatility of applications. **microPrint** is the industry leader in utilizing this advanced technology in the pad printing world. Linear motors are more precise and faster than servo motors and have proven to be equally reliable. **microPrint** features LinMot brand linear motors in their machinery. Pictured above is a LinMot linear motor. You can learn more about linear motor technology at [linmot.com](http://linmot.com)



**MODUL 200** is the "big daddy" in the line of **microPrint MODUL** pad transfer printing machines. The **MODUL 200** machinery can be outfitted with either 160 or 180mm diameter (6.29" or 7") magnetic ink cups and like the other **MODUL** machines in the line the **MODUL 200** is completely programmable from the touch screen and you can program the machine to pick up various artworks on the cliché at different times. This system shown above is equipped with three print heads and a 3D flame treating station and is printing on a 3-dimensional injection molded housing for a household clothes iron. This system is also equipped with a servo motor controlled linear part slide with servo motor turning device for multi-axis printing on this complex shaped part. The **MODUL** series of machines are designed to be labor saving systems without having to handle and print parts multiple times.