



Printing International N.V./S.A.



MODULO
*Two Colour
Pad Printing Machine*



- *Remarkable printing quality associated with an exceptional modularity and "intelligent" controls*
- *High capacity printing machine for two colours*
- *Exchangeable modules with closed ink cups (Ø 90, 130, 160 mm)*
- *Easy set-up with touch-sensitive control panel*
- *Standard pad cleaning*
- *Options are "plug-and-play" connected*

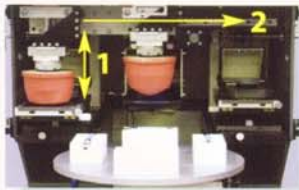
Pad printing

Pad printing is an indirect way of printing. The image is transferred from an etched printing plate onto the object by means of a pad. Thanks to the use of very elastic pads concave, convex, smooth or uneven objects can be printed.

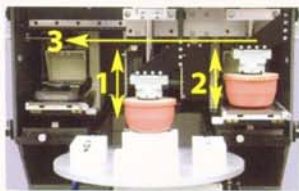
Process



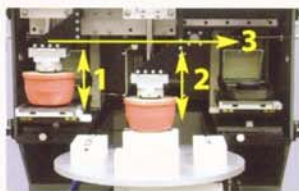
Starting position



1. Take up ink colour 1
2. Pad module moves to the right

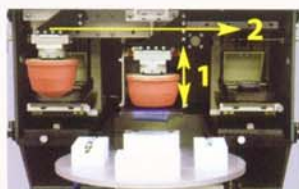


1. Deposit ink colour 1
2. Take up ink colour 2
3. Pad module moves to the left

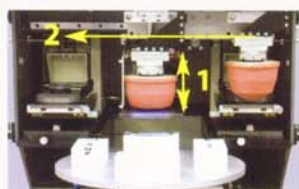


1. Take up ink colour 1
2. Deposit ink colour 2
3. Pad module moves to the right

Cleaning Cycle



1. Cleaning pad colour 2
2. Pad module moves to the right



1. Cleaning pad colour 1
2. Pad module moves to the left

Description

Compact, two-colour, electro-pneumatic pad printing machine:

- 2 closed ink cups (Ø 90, Ø 130 or Ø 160 or mixed)
- pad cleaning
- PLC controlled
- operated by touch-sensitive control panel
- equipped with 1 jig on a XY table
- equipped with rotary table for two or four positions
- automation with pre-treatment, end-drying or ejection of objects.

Direct connection of the table and/or jig to the machine without the need for additional wiring. When the option is connected and the machine is restarted, the new additional features are automatically enabled by the software.

The jig and rotary table are designed in this way that they allow the customer to control different types of jigs, without the need for reprogramming or rewiring the machine. This option module can control 2 cylinders (with end detections), one vacuum unit or product clamp and one part detection. The functionality of these can be fully programmed by the customer by using the touch-sensitive control panel.

Options



Rotary table with two positions to double the capacity



Rotary table with 4 or 6 positions for automation with pre-treatment, end-drying, feeding or automatic/manual ejection of the pieces



High performance and reliability

Control panel

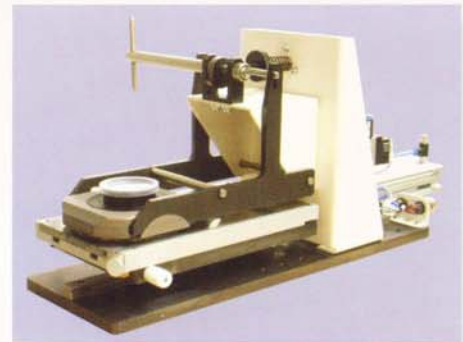
Touch-sensitive control panel and PLC controller for

- manual adjustment of the pad module
- counting of the printings
- setting of the cleaning cycle
- automatic functioning of the machine

Closed ink cup (patented)

- Ink cartridges and printing plate are quickly changeable
- No solvent evaporation or odour spread
- Ink cartridges easily accessible and refillable without demounting
- No ink waste, only printing consumes ink

Print Module



Possible to mount 90 - 130 - 160 print- and pad modules

Standard cleaning system for all module types

Universal connectors for many options

- rotary table
- rotary jig
- vacuum jig
- part detection
- product clamp

Foot switch

The entire installation is CE protected



Easy to integrate in your production line !



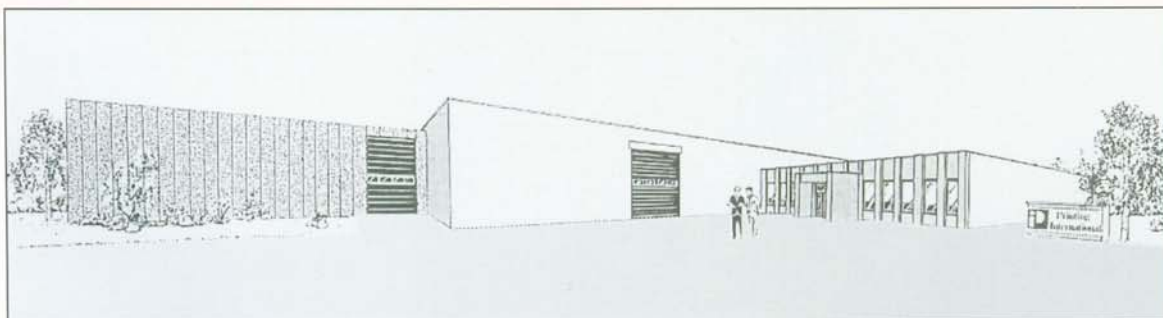
Technical Specifications

Technical info

Compact 2 colour floor stand machine with closed ink cups and pad cleaning	
Used for printing diameter : 90, 130 and 160 mm	
The Modulo is delivered with a CE safety cage and luminescent tube for print control	
Capacity: Pneumatic version adjustable up to 1000 cycles/h Mechanical version adjustable up to 1300 cycles/h : (Depending on product, image and volume of the printable piece)	
The machine is operated with a touch-sensitive control panel	
Print repeatability accuracy:	± 0,05 mm
Print resolution:	200 lpi
Working height:	between 900 and 1000 mm
Printing unit:	pad and printing plate: pneumatic
Controls:	electronic standard PLC controlled
Compressed air:	6 bar
Voltage:	220 VAC + earthing or 3 x 400 VAC + neutral + earthing
Frequency:	50 or 60 Hz
Power:	200 kW
Dimensions:	length 120 cm x depth 110 cm x height 190 cm
Weight:	700 kg
Printing temperature limits:	10° - 30 °C
Optimal printing temperature:	20° C
Noise level :	lower than 70 dB
Feeding of the product:	manual or automatical

Closed ink cup specifications

Closed ink cup diameter (mm)	90	130	160
Printing plate size (mm)	200 x 100	300 x 150	360 x 180
Printing plate support, magnetic with pins	Individual	Individual	Individual
Printing plate adjustable – linear scale	XYR	XYR	XYR
Printing plate type (mm)	Nylon 0,5	Nylon 0,5	Nylon 0,5
	Thin steel 0,5	Thin steel 0,5	Thin steel 0,5
	Thick steel 10	Thick steel 10	Thick steel 10
Magnetic plate	Option	Option	Option
Image size – diameter mm	75	115	145
Image size – square mm	53 x 53	81 x 81	102 x 102
Pad force – N	1870	1870	3016
Pad stroke – mm	200	200	200
Pad adjustment – linear scale	XY	XY	XY
Multiple printing	Standard	Standard	Standard
Air consumption – NI/min	440	440	440
Simple and user-friendly menu structure available in 4 languages: English, French, German and Dutch	Standard	Standard	Standard



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