

## HYBRID Pad Printing Machine



PAD PRINTING MACHINES ACCESSORIES SERVICE

Standard pad printing machine for minimum-size series production  
Ideal for variable, frequently changed data amounts  
2-color printing, cliché production integrated

## Standard Pad Printing Machines

# HYBRID Series

The future in the pad printing process lies in the integrated cliché production using laser engraving. The pad printing machine **HYBRID 90-2** combines the concept of the "hermetic" pad printing with the flexibility of the digital data for cliché production. Thanks to the software ALFALAS® Laser Suite which was specifically developed for this purpose, the cliché production takes place in the HYBRID 90-2. Automatic changeover of print motifs takes place in a matter of seconds. A multi-color print motif will be directly produced with precise register setting.

The **HYBRID 90-2** is based on the well-trying V-DUO principle with an ink/doctoring cup size Ø 90 mm.

Our in-house developed microflex cliché band plays an important role making this concept possible. It possesses a high engraving quality and mechanical stability.

The control of the **HYBRID 90-2** iTAMPOPRINT is already prepared for the use of the software iTAMPOPRINT. This offers the possibility to connect the pad printing machine for example to an ERP system in order to allow a complete data management. In addition, it is possible to process external information of camera systems, testing devices etc.

### Comparison

HYBRID – Cliché production by means of laser engraving		Production of Magnet-screen clichés	
1	Prepress	1	Prepress
2	Setup laser software	2	Creation of film
3	Cliché engraving	3	Mounting of film
4	Printing	4	Exposure
–		5	Washing out
–		6	Curing
–		7	Mounting of cliché
–		8	Adjusting of register
–		9	Printing



**HYBRID-90-2**  
Integrated laser unit for production of printing clichés



**HYBRID-90-2**  
Slewable printing unit

HYBRID Series

# Focus on flexibility



With pad printing  
it will be safer

Technology

# HYBRID Series

HYBRID		HYBRID 90-2	HYBRID 90-2 INTAGLIO	HYBRID 90-2 iTAMPOPRINT
Floor standing/Integrated model	Item No.	01 00 95	01 00 97	01 00 96
Ink residue pick-up system		integrated	integrated	integrated
Single cycle		yes	yes	yes
Multiple printing		yes	yes	yes
Continuous run		yes	yes	yes
Piece counter		yes	yes	yes
Variable speed control		yes	yes	yes
Cycles/hour	max.	1200	1200	1200
Ink/doctoring cup size	Ø mm	2 x 90	2 x 90	2 x 90
Variable doctoring contact pressure		yes	yes	yes
Cliché band microflex 2x	mm	L 28 000 x B 120	L 28 000 x B 120	L 28 000 x B 120
Print image size max.	Ø mm	85	85	85
Number of colors		2	2	2
Variable pad stroke onto workpiece	mm	10–160	10–160	10–160
Variable pad stroke onto cliché	mm	10–70	10–70	10–70
Pad installation height max.	mm	95	95	95
Force of pressure	N	1170	1170	1170
Drive		electropneumatic	electropneumatic	electropneumatic
Connected load	kW	1,5	1,5	1,5
Power supply	V/phase	230V/1/N/PE	230V/1/N/PE	230V/1/N/PE
Interface		D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole and Ethernet connection
Power frequency	Hz	50–60	50–60	50–60
Control		PLC	PLC	network-compatible PLC for OPC + TAMPOPRINT
Control voltage	V/DC	24	24	24
Prefuse	A	16	16	16
Pneumatic supply fine filter 5 µm	bar	6	6	6
Air consumption	NL	8	8	8
Width	mm	1034/1962 <sup>1)</sup>	1034/1962 <sup>1)</sup>	1034/1962 <sup>1)</sup>
Depth	mm	1215/2650 <sup>1)</sup>	1215/2650 <sup>1)</sup>	1215/2650 <sup>1)</sup>
Height	mm	1925/1085	1925/1085	1925/1085
Weight	approx. kg	530/420	530/420	530/420

1) operating range

Cliché engraving with integrated laser source SK 62	
Laser source	Pulsed Yb:YAG fiber laser, 1064 nm, air-cooled
Frequency	20–80 kHz
Output power	< 20 W
Ambient temperature	+5°C up to +35°C, relative air humidity < 85%
Deflection unit	Galvo head, standard with aperture Ø 7 mm (Ø 14 mm for HYBRID 90-2 INTAGLIO)
Optics	Focal length f-160 mm
Marking area approx.	120 mm x 120 mm
Software	ALFALAS® Laser Suite (Language versions: German, English, other languages upon request) consisting of ALFALAS® Designer: Creation of simple graphic objects, 1D and 2D barcode modules, text functions, variable text functions (e. g. serial number, date), import filter (*.pdf, *.ai, *.eps, *.dxf, pixel graphic) ALFALAS® Control: Control and monitoring of the laser function; optional external control via TCP/IP protocol ALFALAS® Protocol Viewer: Logging of all system-relevant events
Supply unit	Box-PC, Windows 10, 64 Bit, touch-screen display and keyboard

## Standard Pad Printing Machines

# HYBRID Series

**HYBRID 90-2**  
with option light curtain



**HYBRID 90-2**  
in an automation



## Scope of supplies

Toolkit  
Paper cups  
Stirring spatula  
Spray bottle  
Ink/doctoring cups  
Ink cup holder  
Thrust collars  
Pad couplings  
Printing pads  
Pad cleaning  
Software iTAMPOPRINT light  
**HYBRID 90-2 iTAMPOPRINT:**  
SIEMENS OPC Server  
Recipy administration  
Preparation for external data connection  
Software iTAMPOPRINT

## Accessories & Options

Rotary index table  
Light curtain  
x-y cross support  
2-color ink/doctoring cups  
Workpiece sliding unit  
Bench model

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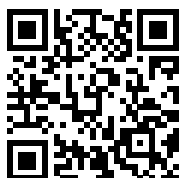
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Technical Data  
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All locations are certified ISO 9001:2015

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