

LEADS

PAD PRINTING



 PAD PRINTING MACHINES
 LASER SYSTEMS
 AUTOMATIONS
 ACCESSORIES
 SERVICE

STAND-ALONE Pad printing machines

INTEGRATED Pad printing machines



Technologies for your future
made in germany

ORIGINAL

TAMPOPRINT

Pad Printing Machines
Laser Systems ALFALAS®
Automations

OVERVIEW

STANDARD -SERIES

TAMPOPRINT® Group
Global dealer network with
authorised dealers and
cooperation partners.
Contacts see online:
www.tampoprint.de

Sealed Ink Cup E



since 1994
page 4/5

Entrance 90



since 2014
page 6/7

Hermetic



since 1990
page 8/9

Rapid



since 1988
page 10/11

ENCODER



since 1983
page 12/13

TSM

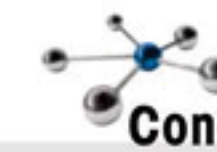


since 2011
page 14/15

V-DUO



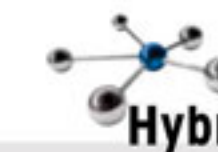
since 1998
page 16/17



Concentra



since 2003
page 18/19



Hybrid 90-2



since 2007
page 20/21

PATENT

RTI



since 1981
page 22/23

Speed



since 2010
page 24/25

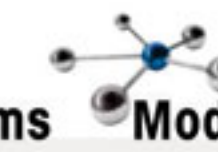
PATENT

Headquarters Germany

Pad printing systems



since 2013
page 26/27



Modular systems



since 1995
page 28/29

under one roof



Consumables +
accessories + spare parts
page 30/31



Laser systems



since 1990 ALFALAS®
page 32/33

ORIGINAL
TAMPOPRINT



TAMPOPRINT® AG Germany
Special machine construction since 1978
Assembly hall



TAMPOPRINT® IBERIA S.A.U., Spain



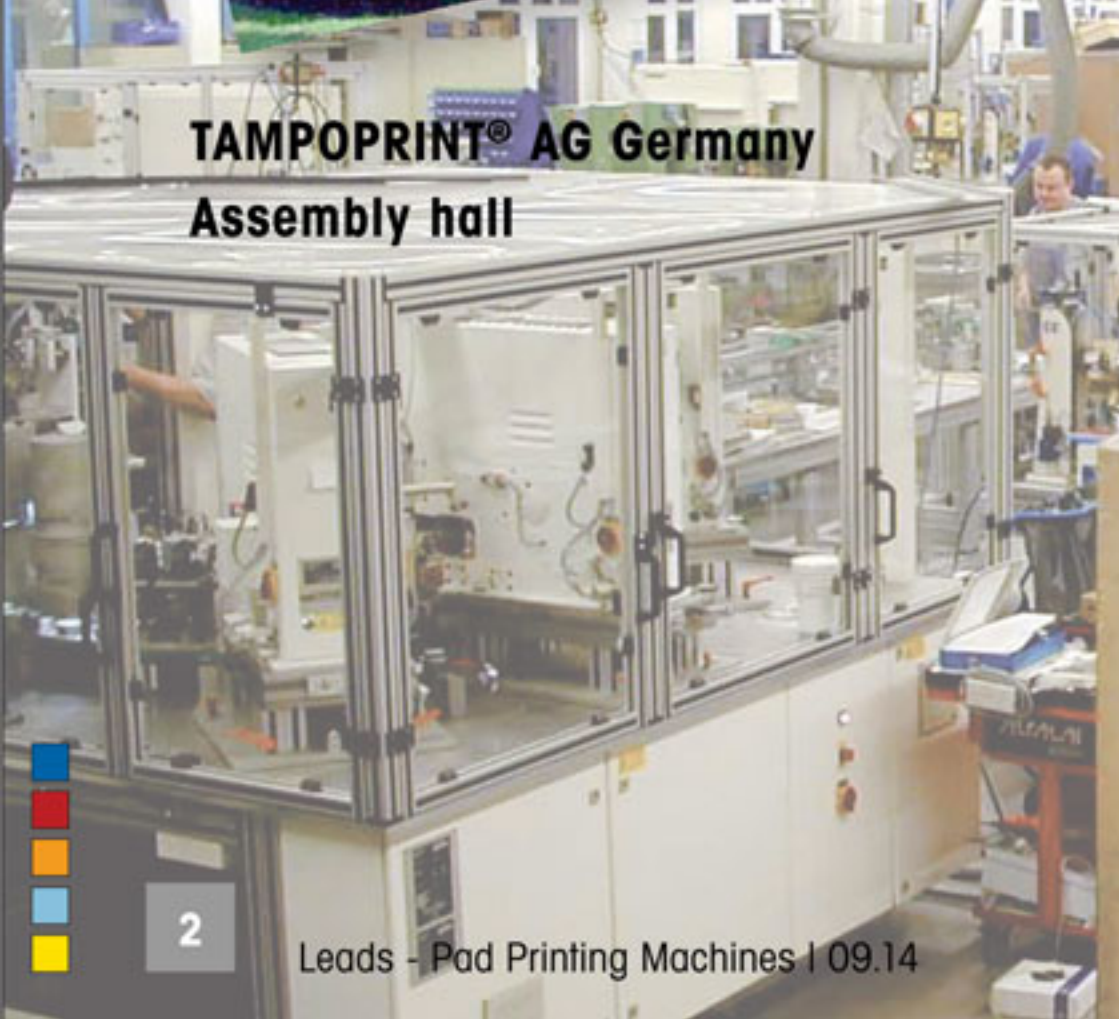
Permanent machine exhibition
in the head office in Germany



TAMPOPRINT® Int. Corp., USA



ALFA TOOLS® GmbH, Spezialmaschinenfabrik
Sister company



TAMPOPRINT® AG Germany
Assembly hall



ALFA TOOLS® GmbH, serial production
Sister company

LEADS

THE SYSTEM PARTNER

We, a medium-sized German manufacturer of special machines, are an innovator and an established system provider for the industry.

Thanks to the invention of the industrial pad printing process by Mr. Wilfried Philipp in 1968, enormous process changes were made possible to the production processes in the plastics industry.

Many different manufacturing processes would not have been possible today without the pad printing.

With our second product group ALFALAS® laser systems we offer you an expansion of the marking technology - from the hand-work place to the fully automated system.

The combination of pad printing and laser technology makes our product range perfect.

Our service "everything under one roof" comprises: print-technological accessories, machine options, consumables, guaranteed spare parts supply, maintenance and training. Your complete requirements covered by one single supplier. Your personal online shop allows to reorder your material requirements 24h every day.



2006 - 50th anniversary of company founder and inventor of the industrial pad printing "Wilfried Philipp".

➤ more than 150 patents - TAMPOPRINT® worldwide

➤ trademarks of TAMPOPRINT® AG



1968



First experiments with silicone pad

1971



First patented pad printing machine

1983



First "hermetic" system in the world

2007



Worldwide the first pad printing machine with integrated cliché production

2010



Worldwide the fastest clocked pad printing machine for flat printing



STARTER MODEL



STANDARD

SEALED INK CUP E -SERIES

Compact and further developed

With the new "Sealed Ink Cup E" series you will receive a modern and technologically high-quality electropneumatic pad printing machine. The ideal starter model for stand-alone use.

Based on the previous series, the "Sealed Ink Cup E" can now be connected to transfer systems or components of your automated system. Thanks to a 37-pole automation interface (standard equipment), it is now prepared for the design enhancement with optional features. Its control is easy to operate.

The "Sealed Ink Cup E" series shows an internationally convincing price-performance ratio "Made in Germany".



< "Sealed Ink Cup 60 E"



< "Sealed Ink Cup 90 E"



< "Sealed Ink Cup 130 E"

Fig.: with aluminium profile machine stand (option), ink residue pick-up system left (option)

TECHNOLOGY see page 22



^ Aluminium profile with rotary index table T4



^ With fitted single jig carrier (hand-work place)



^ With fitted ink residue pick-up system



^ Rear side with interface D-SUB 37-poles

made in germany

NEW POSSIBILITIES WILL OPEN UP



STANDARD ENTRANCE 90

A world-first
with an unbeatable priceperformance ratio in its class.

The "Entrance 90" is worldwide the first electro-mechanically driven pad printing machine which is - with regard to the price - in direct competition to pneumatically driven pad printing machines. The machine is universally useable and has the great advantage that it does not require compressed air and therefore can be operated from wherever an electrical outlet is available!

Special emphasis of the pad printing machine "Entrance 90" focuses on an exceptional large working area (depth 300 mm, height 750 mm); therefore the operator remains flexible in the product diversity of his product parts and can effortlessly print with only one pad printing machine on components of various sizes.

The set-up of the "Entrance 90" is toolless and very simply mechanically adjusted. The operation is extremely simple and graphical - ly based thanks to the control over pictogram in conjunction with a touch-panel.

The "Entrance 90" is a pad printing machine with the smallest market-price in this class with TAMPOPRINT® precision "Made in Germany".



< "Entrance 90"

TECHNOLOGY see page 19



^ Toolless cliché change



^ Toolless printing pad change



^ Machine table with very large adjustment track



^ Example for utilization of the large working area: Printing on the face of a cylinder



FOCUS ON DIVERSITY



STANDARD

HERMETIC -SERIES

The universal

"Hermetic" series offers a range of applications thanks to its features. In particular, the electromechanical drive with its very quiet running has predestined the "Hermetic" series for integration into automated systems. With the models "Hermetic 6-12 / 9-12 / 13-12", the ink residue pick-up system (option) is integrated into the machine housing. Thus allowing the machine to be used in confined spaces.

Exclusive to TAMPOPRINT® is the adjustable pad stroke onto the workpiece in combination with an electromechanical machine drive.

The variable contact pressure of the ink/doctoring cup offers optimised service lifetimes for the printing clichés used and the best results for doctoring.

In addition to all the above advantages, the "Hermetic 150" offers a max. print image size of Ø 140 mm. An (optional) ink-residue pick-up system can be fitted either on the right or left of the machine.



< "Hermetic 6-12 universal"
Table model

< "Hermetic 9-12 universal"
Table model

< "Hermetic 13-12 universal"
Table model

< "Hermetic 150"
Fig.: Integrated model with steel frame as option

TECHNOLOGY see page 14



^ Practical plastic housing, perfectly designed, easy accessibility



^ Ink residue pick-up system (pad cleaning)

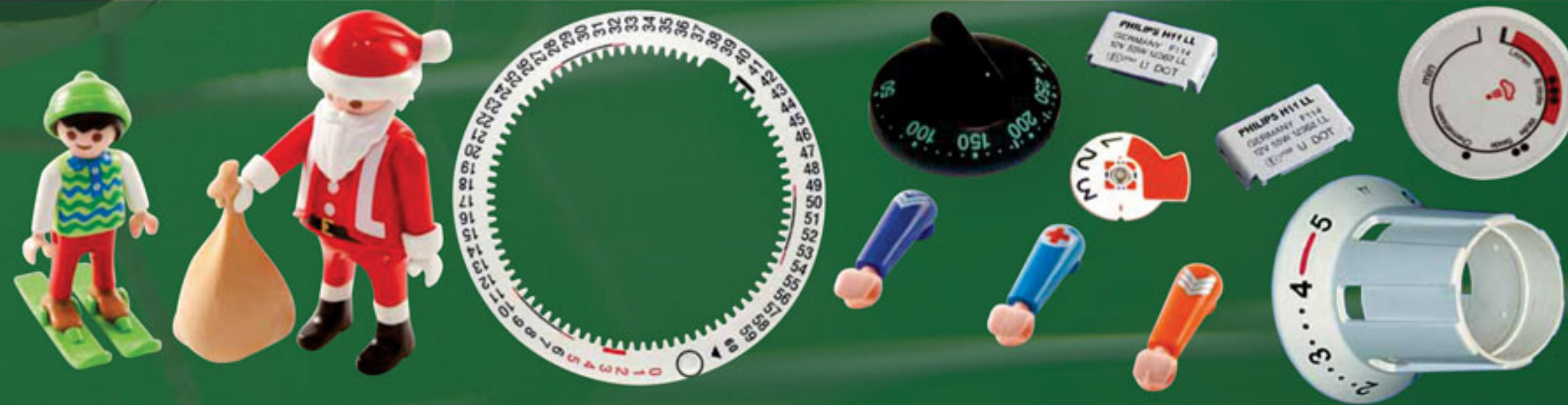


^ Automation with "Hermetic 9-12 universal"



^ Reference automation for the toy industry 6x "Hermetic 6-12 universal"

WITH HIGHTECH TO THE GOAL



STANDARD RAPID -SERIES

High requirements are the core competence

of the "Rapid" machine series. At home in the construction of automated systems with very high performance requirements.

An energy-efficient electromechanical drive with extremely quiet running for precision designed printing motifs will guarantee your additional benefit.

The integrated membrane keyboard offers a number of setting options and makes it possible to coordinate the machine exactly to your customer-specific task.

All models in the "Rapid" series are available optionally with a side-mounted or space-saving front-mounted ink residue pick-up system. To allow a better refitting, the ink residue pick-up system can be rotated upwards.

The "Rapid 2000 /60-1" without its own drive is available for special applications. It can be driven externally via a chain wheel or drive belt.

A machine series which was designed for 24h continuous operation.



< **"Rapid 2000/60-1"**
Integrated model for automations for external drive, with cliché adjustment

< **"Rapid 2000/60-3"**

< **"Rapid 2000/90"**

< **"Rapid 2000/130"**

TECHNOLOGY see page 16



^ Reference: Automation für die Spielzeug-Industrie



^ Reference: Automation für die Medizin-Industrie Counter rings (Inhalator)



^ Reference: Automation für die Medizin-Industrie Counter rings (Inhalator)



^ Reference: Special construction "Rapid"

WHO INVENTED IT? GERMANY



ORIGINAL
TAMPOPRINT

STANDARD ENCODER -SERIES

1982 the first in the world ...

... the "ENCODER" machine series was launched at the Hannover Messe in 1982 as the world's first pad printing machine with closed, that is "hermetic", ink/docting system. It was specially developed for integration in all kinds of automated systems..

The "DV" -Series

has a pure pneumatic drive. It can be operated using superior controls, thereby providing you with freely configurable machine sequences.

The "EP" -Series

offers three different electronic control possibilities.

The variants ENCODER "/1"

can be put in any position in 360°. Thanks to a special ink/docting cup and the appropriate controller all print positions are possible. With the addition of the ENCODER aluminium stand, the print object distance can also be adjusted with a hand wheel.

We offer for all models an ink residue pick-up system (option). It can be optionally attached to the left or right sides (option).



< 1982

< "ENCODER 40/50 EP"

< "ENCODER 40/50 DV"

< "ENCODER 40/50 DV/1 & EP/1"
Overhead version

TECHNOLOGY see page 17



^ "ENCODER /1" version with
Ink residue pick-up system



^ "ENCODER DV" with
stroke extension



^ Reference: Light switch
frames "ENCODER EP"



^ Reference:
"ENCODER EP/1" 90°

ORIGINAL
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THE COMBINATION



STANDARD TSM -SERIES

Now it is the customer's choice

to select one of two typographic units. The basic machine "TSM" always remains the same with the kit being freely selectable and perfectly in line with the requirements of the printing unit, print image as well as production output. Each printing unit as well as tampon lift and carriage movement can be provided as a pneumatic or electromechanic drive kit.

"TSM - hermetic transverse doctor blade kit"

for print motifs up to a length of 520 or 650 mm and a print image up to 80 or 130 mm wide. The special feature here is that it is able to handle extremely large or very long print images on one and the same printing unit in just one printing pass. It is ideally suited for long printing parts that require a lot of print. There is either the option of using one colour (1 ink/doctoring cup) or operating with 2 contradirectionally acting ink/doctoring cups, which provides for application of 2 colours in one printing pass.

"TSM - hermetic multiple colour kit Solo"

provides up to 5 colour units in doctoring cup sizes 60 or 130 mm and 2 - 4 colour units in doctoring cup sizes Ø 90 or 150 mm. Even serially arranged motifs are possible. This enables individual motif changes (printing plate exchange) or colour changes and adjustment via precision table. A big advantage: You can insert do-it-yourself printing cliché types such as environmentally friendly plastic plates that can be rinsed of with water.

Versions with servomechanical drive are characterised by a very high number of cycles and a very high force of pressure. Energy-efficient cinematics in doctor or tampon movement and a resource-saving machine frame construction round off the successful machine concept.



◀ "TSM 60/90"
"hermetic" transverse doctor blade kit

◀ "TSM 130"
"hermetic" transverse doctor blade kit

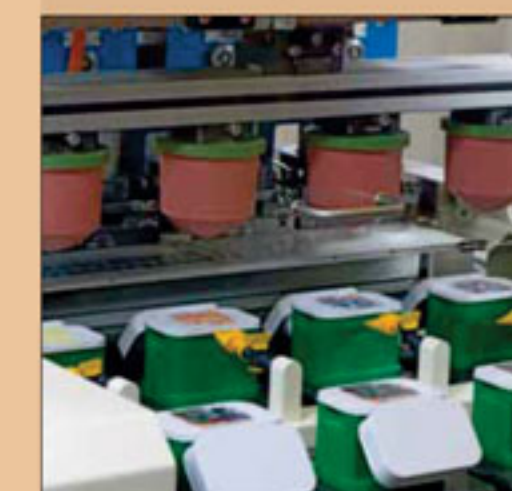
◀ "TSM 60/90"
"hermetic" multiple colour kit Solo

◀ "TSM 130"
"hermetic" multiple colour kit Solo

TECHNOLOGY see page 4-11



▲ "TSM 60/90" with "hermetic" transverse doctor blade kit - replaces our TSQ series



▲ "TSM 60/90" with "hermetic" multiple colour kit Solo



▲ "TSM 60/90" with "hermetic" multiple colour kit Solo

MAGICAL TRIANGLE

STANDARD V-DUO -SERIES

Its unique functional principle

facilitates very high performance. The "V-DUO" series features 2-colour machines. Very high register accuracy thanks to the printing of both pads at one printing position. The V-shaped pad bridge facilitates parallel print image transfer and print image pick-up.

The combination of V principle and universal control makes it possible to fulfil practically any wish. The variety of setting options can be saved in 5 programme sequences. Each pad can be independently programmed with all functions. The function "start of production" allows actuating customer's automations. The two cliché holders are provided with an x-y-w adjustment option, an ink residue pick-up system is installed as standard.

To increase performance (feeding), we recommend the addition of a rotary index table. With the implementation of our standardised "Modul 1000" the extension for a semi-automation will be achieved.

To allow integration into automated systems, the "V-DUO" series is also available as bench model.



< "V-60/90 DUO"



< "V-60/90 DUO" with rotary index table



< "V-130 DUO"

TECHNOLOGY see page 15



^ "T2" rotary index table for the feeding of workpieces



^ "V-DUO" principle



^ Reference: "V-DUO" with linear feeding



^ "V-DUO" with option: light curtain

MULTICOLOURED ROUNDABOUT TRAFFIC



STANDARD CONCENTRA -SERIES

Excellent as a stand-alone solution, they have a wide field of application. Processes such as ink pick-up, ink transfer and ink residue pick-up system take place synchronously. A result is the high performance. Effectively utilised with optionally available transfer systems (option) = Fitting takes place parallel to the printing process.

The operating principle of the "Concentra" series for a 4 or 6 colour print image offers you a print image transfer onto just one component position.

High speed due to electro-pneumatically driven doctor blade unit. Maximum flexibility with pneumatic pad stroke movement. Very good accessibility from all four sides.

For further increased performance with 2-colour print images, the "Concentra -/4" can operate with a double performance 2+2 (twister principle).

Ink residue pick-up system and integrated VIPA S7 PLC control are a standard option. Programme enhancement possible at any time. Up to 10 programme alternatives per printing station storable. Smart cards for additional jobs can be integrated in the external operator panel.

The further developed "Concentra 90-6" in combination with the "Intaglio" pad printing system (page 26-27) allows precision-designed printing without setup even in photographic quality.



◀ "Concentra 90-6"



◀ "Concentra 130-4"



◀ "Concentra 140-6"
Reference: Semi-automated system for white goods



◀ "Concentra 210-6"

TECHNOLOGY see page 20-21



▲ Rotary index table "T2" for the parallel feeding of workpieces



▲ "Concentra 60/90-4" + light curtain + manual x-y cross table



▲ "Concentra 90-6" + module Linear axis Ideal for white goods



▲ 6-colour arrangement + module Linear axis

WITH THE SPEED OF LIGHT TO THE TARGET



STANDARD HYBRID 90-2

The future in the pad printing process.
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. This is possible thanks to the "microflex" cliché band which was specially developed for this purpose and the matched software "TP_alfa®".

Automatic changeover of print motifs takes place within the shortest possible time. A multi-colour print motif will be directly produced with precise register setting by using laser engraving within the machine. There is no need to exchange cliché and ink cup. You will save enormous set-up costs and material inventory.

The "Hybrid 90-2" is based on the well-tried "V-DUO" principle with an ink/doctoring cup size of 2x Ø 90 mm.

This forward-looking machine concept was made possible above all thanks to our **in-house developed and produced "microflex" cliché band**. It has a high engraving quality and mechanical stability.

The control of the "Hybrid 90-2 iTAMPOPRINT" is already prepared for the use of the "iTAMPOPRINT" software. 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.



< **"Hybrid 90-2"**
- patented,
integrated cliché production
using laser engraving



< **"Hybrid 90-2"**
Reference: ABB Switzerland
- Hybrid with the option
"iTAMPOPRINT" replaces five
conventional machines -

TECHNOLOGY see page 23



^ Integrated laser unit for
production of printing clichés



^ Slewable printing unit for
the easy exchange of cliché
band and ink



^ 2 printing stations equipped
with "microflex" cliché band



^ Touch screen, cliché produc-
tion is controlled from here

HIGH PERFORMANCE WITH SURFACE ADHESION

STANDARD

ROTARY PRINTING UNIT -SERIES

Since 1981

The rotary pad printing is a special variant of the pad printing and since 1981 a specialty of our company. By arranging several rotary pad printing units one after another, high-quality multicolour prints can be produced. The rotary printing is used for cylindrical and plane moulded parts or partial surface areas.

Beside of the colour transfer for marking and decoration print images, in the rotary pad printing also primer, medication, glue, infrared absorbing lacquers and much more are transferred on different surfaces.

We offer 3 different integrated printing units and a stand-alone solution for you to choose from. The integration position of the rotary pad printing units displayed here depends on the process of our customers.

The "H-RTI 21-150"

Horizontally working rotary printing unit which is specifically suited for use in any kind of automated systems. Built into all "Rotoprint" and "Continua" automated systems for bottle caps since 2012 as the successor to the proven "RTI 2000". Set-up time optimised by the simple method of setting the registration positions and the contact pressure without tools.

The "V-RTI 3000" & "H-RTI 2000"

Horizontally or vertically operating rotary printing units. By means of this positioning, the products delivered can be printed from above or from the side. Particularly for cylindrical and vertically standing parts, the "V-RTI 3000", the further development of the tried and tested "V-RTI 2000" is the ideal printing unit.

The "RTI-Kompakt II E"

is a single-colour rotary pad printing machine. Designed as a manual workstation, it is primarily used to print round or flat parts. "RTI-Kompakt II" equipped with an "RTI/2-100" printing unit is an economic solution.



◀ "H-RTI 21-150"
Horizontal integrated rotary printing unit



◀ "H-RTI 2000"
Horizontal integrated rotary printing unit



◀ "V-RTI 2000"
Vertical integrated rotary printing unit



◀ "RTI Kompakt II E"
Handwork station with "RTI/2-100" rotary pad printing unit + light curtain

TECHNOLOGY see page 12-13



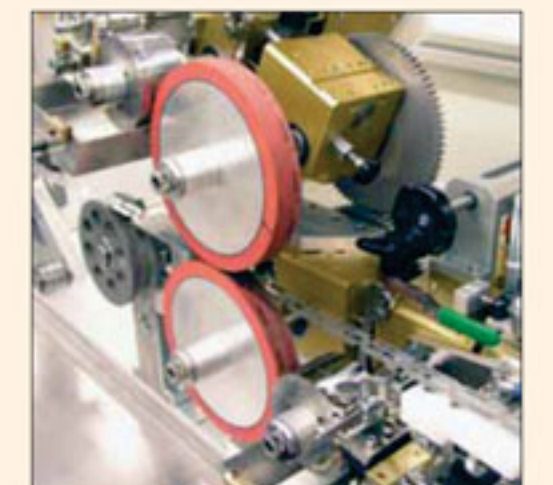
▲ "RP" Pad roller



▲ "H-RTI 21-150" with Ø 100 mm ceramic cliché cylinder and 50 mm spacer



▲ "RTI Kompakt II E" Jig in printing position



▲ In-Line equipment (razor blades), face and reverse printing



HER PULSE: 9000



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TAMPOPRINT

STANDARD SPEED -SERIES

No other
clocked flat printing pad printing machine on the world market offers you these benefits.

With the development of our "Speed" series, the performance difference between flat and rotary printing with respect to part throughput has been successfully reduced.

The result: the development of the "Speed 40-2" pad printing machine. Its output: as many as 9,000 cycles/h in continuous run. The production quantity is max. 18,000/h printed parts (single colour with a printed image size of Ø 37 mm). Very high true-to-register printing, precision contours and photo and line images.

The "Speed 40-2" is an integrated machine, suitable for all types of clocked, linear or rotary transfer systems. Due to the integratable misprint device, the equipment does not stop if a component is missing.

The energy costs are low in relation to the frequency (item throughput).



◀ "Speed 40-2"
Patent



◀ "Speed Modul 2010"
Standardised automatic system construction with high speed NC rotary table



◀ "Speed 40-2"
Reference: Automated system for small parts with rotary indexing table

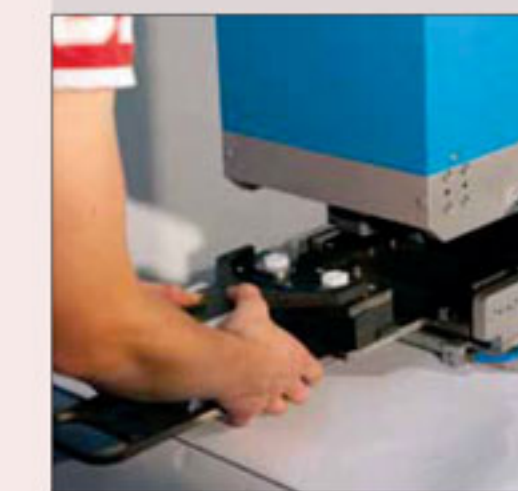
TECHNOLOGY see page 3



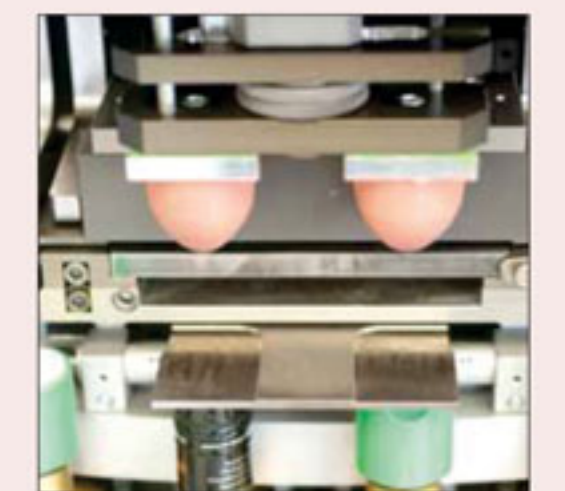
▲ Integrated model
"Speed 40-2"



▲ Fully automated system with
4-way use = 36,000 parts/h



▲ ... proven speed change
system



▲ Speed guaranteed ...
Misprint device

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TAMPOPRINT

COLOURFUL DIMENSION



STANDARD

"INTAGLIO" PAD PRINTING SYSTEM

The unrivalled dimension in pad printing

The quality of this system is unique on the market and it is in a position to create screen motifs and photorealistic print images. It consists of the "Intaglio" cliché laser, the new Intaglio® laser cliché which is suitable for screen printing and the TAMPOPRINT® pad printing ink "IPP" which has been specially developed for it.

For the cliché production with the "Intaglio" cliché laser the printing data will be converted into printable screen data by means of the RIP-software. This software will split the artwork during the conversion into single process channels.

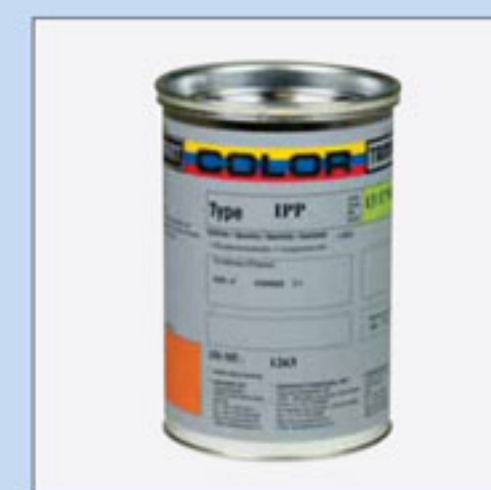
With conventional laser engraving all cells in the cliché have the same depth. The webs which remain after the engraving can be very easily removed or damaged by the ink/doctoring cup. During the production of the "Intaglio" laser cliché the screen is engraved with different depths corresponding to the tonal value.

Benefit: Through the aimed engraving within the coating, the created structure will remain stable since it always remains connected.

You will achieve perfect results with the pad printing ink "IPP" which was specially developed by TAMPOPRINT® for the photorealistic screen printing.



"Intaglio" Cliché laser



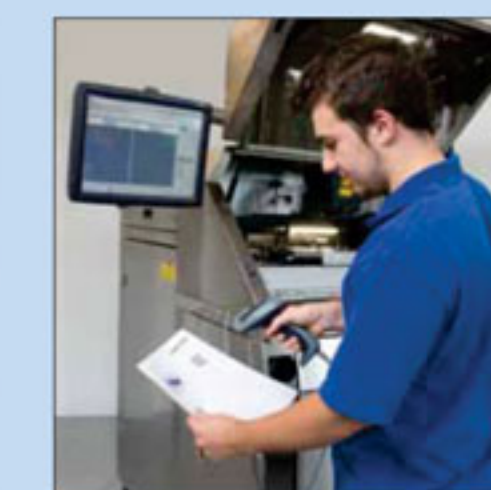
Specially developed for it:
pad printing ink "IPP"



"INTAGLIO" laser cliché
for the 4-colour pad printing



Linear motor axis with
receiver plate for
4-colour screen set



Safe selection of artwork
using "Intaglio" software
package

COMBINING IS WELCOME



STANDARD MODULE SYSTEMS

Innovative platforms that can be used in all fields of the production technology such as the pharmaceutical, packaging as well as automotive industries.

"Modul 1000"
Standardised semi-automatic system with one marking station. Free choice of your pad printing machine. Compact, economical and safe working. Up to 4 workpiece carriers are available.

"Linear Modul 2010"
You can combine all the units. Pad-Unit, Drive-Unit, Vario-Unit ... in an "endless" series. Perfect for the production of medium volumes of parts of large print objects and different print image positions.

"Modul 2010"
Perfectly suited for the production of medium-sized quantities with applications where hygiene is critical. The basis of the "MODUL 2010" consists of a stainless steel compact frame and a rotary table with a diameter of 900 mm. The mechanical drive offers a precise repeat accuracy. The use of 2-4 marking stations is possible. Combine pad printing and laser marking. For the circular printing of cylindrical parts choose our rotary pad printing machines of the "RTI" series.

"Speed Modul 2010"
You can combine 2-4 marking stations, pad printing and/or laser marking. Ideal for the printing on tops of closures or smaller print objects. Perfect for high volume requirements.

"MAP" - Modular Automation Platform
"MAP" is a concept for all industrial sectors with an unprecedented flexibility.



< **"Modul 1000"**
Example: with "V-DUO"



< **"Modul 2010"**
Example: 2x "Hermetic 9-11" in stainless steel construction for hygiene-critical applications (pharma industry)



<



<



< **"MAP"**
Modular Automation Platform

TECHNOLOGY see page 18



^ Control of the Modul automations via touch screen



^ "Modul 2010" combined with 2x "Hermetic 9-11 Universal"



^ "Vario-Unit" + "Pad-Unit" "Linear Modul 2010" ø 60, 90, 130, 210 mm

FEELING AT EASE IN GOOD HANDS



Consumables and accessories for every target group



Everything for the application engineer from stock

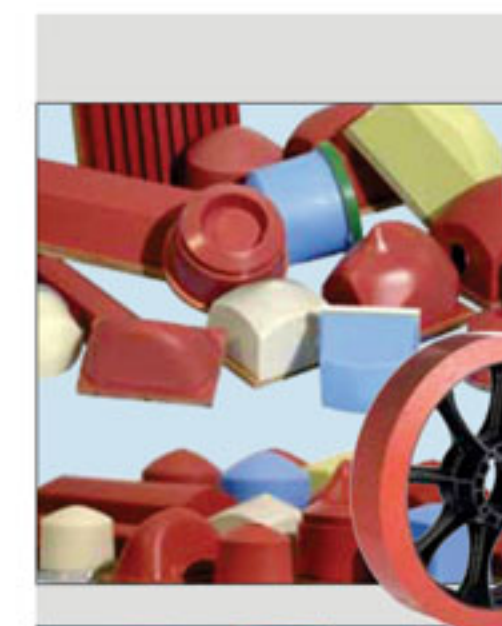


Special work-place equipment for the pad printer

SERVICE

EVERYTHING UNDER ONE ROOF RELIEVES

- ▷ **We will advise you**
Our **warrantees** and the **scope of supply** of our standard pad printing machines surpass the usual standard.
- ▷ **Spare parts** can be ordered even for over 30-year "old" TAMPOPRINT® pad printing machines.
- ▷ Our **service technicians** from the TAMPOPRINT® machine construction department with decades of practical experience will be happy to make their know-how available to you.
- ▷ Reasonable, appropriate **application-technical and print-technical accessories** can be ordered directly. To be seen at any time in our in-house exhibition.
- ▷ A large application-technical department for original **sampling of your workpieces** to enable you to see what to expect from our pad printing technology or our laser marking systems.
- ▷ An **ink laboratory** offers to you the ink shade which will be based exactly on your specifications. So you can guarantee to adhere always to a constant print image quality.
- ▷ In addition, **frame contracts** guarantee the constant quality of your products and the fulfilment of demands of consumables as well as an after sales service. Alternatively: You can apply for our online order system. "simple system" enables you or even several branches of your enterprise to immediately order the required consumables or spare parts with daily updated price quotes.
- ▷ An **individual training offer** for your staff completes the "everything under one roof" service.
- ▷ **Your artwork files or film and reflective artwork** are professionally processed by our DTP work places. This guarantees the best possible quality for your print motifs and ready for printing pad printing clichés.



▷ **Printing pads
Rotary rollers**
Printing pad from stock - see Online pad data base



▷ **Pad printing ink & printing auxiliaries**
Pad printing ink for all pad printing systems



▷ **Pad printing clichés**
Processed, unprocessed, "Do-it-yourself"



▷ **Artwork production / DTP**
Professional artwork production



Training offers year-round



Our service team will assist you all over the world



Special inks made in our own ink laboratory to your specifications.



Test prints and samples

EXCELLENCE IN FOCUS



ALFALAS®

LASER SYSTEMS

Laser system components

TAMPOPRINT® AG has over 20 years experience in the area of labelling lasers and offers individual system components for integration by the customer. Of course, we use these also in the most varied customer specific automated system solutions, often in combination with pad printing - a speciality of TAMPOPRINT® AG.

Pad printing and laser marking

We offer to you the ideal complement. Colour removal of preprinted pad printing ink using laser is a patent of TAMPOPRINT® AG. The combination of ink and variable text data as a fully automated system solution is a speciality of TAMPOPRINT® AG. It can be ideally combined in the "Modul 2010", see page 29. There is also the possibility to roughen the surfaces to achieve an optimum surface adhesion of the pad printing ink (e.g. chromeplated surfaces).

"MOF" series

Ex.: 2- and 1-component plastic closures with/without liner are marked fully automatically for promotions using the patented "MOF-Promo HP" in highest precision, production capacity as well as quality. Changing characters can be individually realised at any time thanks to the specifically developed "TP_alfa®" software.

"CLICHÉ-LASER +"

Desk laser for manufacturing print-ready pad printing clichés. Use in combination with the "Magnet-Aloxid", "Aloxid-special" and "Magnet-microflex" clichés specially developed by TAMPOPRINT®.



< **"MOF" series**
"MOF-Promo HP"
automated system for promotion
actions on the inside of closures
or liners.



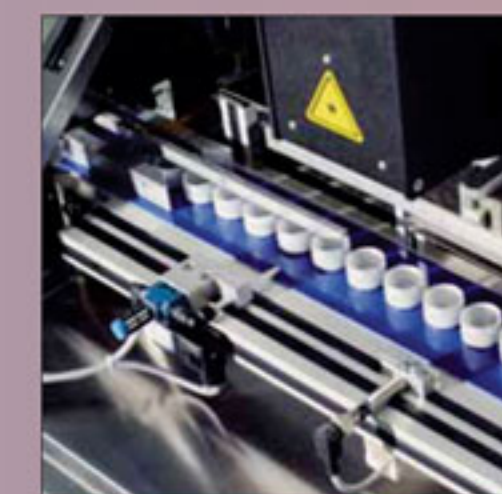
< **Laser system components**
Ex.: "UV 315"



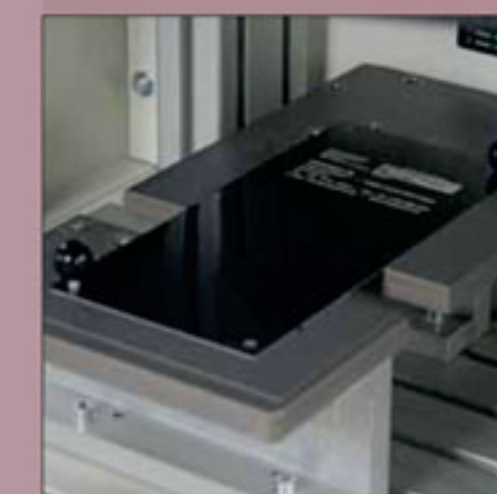
< **"CLICHÉ LASER +"**
for manufacturing laser
etchable pad printing clichés



^ **"MOF-Promo HP"**
Laser marking of crown corks
inside for promotion



^ **"MOF-Promo HP"**
Laser marking of closures
inside for promotion



^ **"CLICHÉ LASER +"**
Multi-cliché plate



^ **"CLICHÉ LASER +"**
simple and clear operation

THE CORRECT ONE

YOUR SELECTION GUIDE

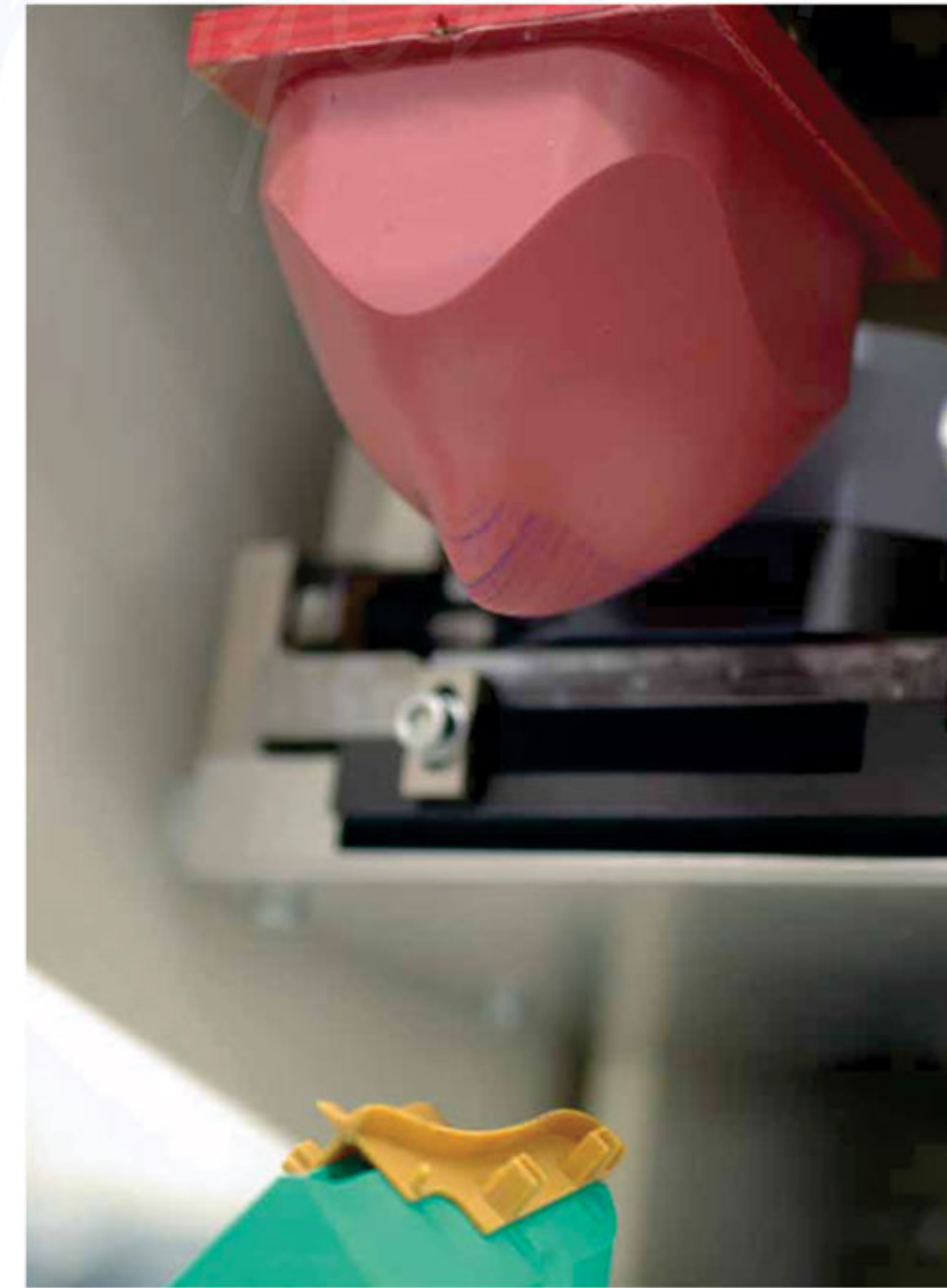
Standard pad printing machines Series			Sealed Ink Cup E	Entrance 90	Hermetic	Rapid	Speed 40-2	Encoder EP	Encoder DV	V-Duo	Concentra	RTI Rotation	Hybrid 90-2	TSM 60/90 Mehrfarbenkit Solo	TSM 130 Mehrfarbenkit Solo	TSM 60/90 transverse doctor kit	TSM 130 transverse doctor kit
Equipment	1-colour		✓	✓	✓	✓	✓	✓	✓	0	0	✓	0	✓	✓	✓	✓
	2-colour		0	-	0	N	✓	0	0	✓	0	N	✓	✓	✓	✓	✓
	4- to 6-colour		0	-	-	-	-	-	-	-	0	✓	0	✓	✓	✓	✓
	Ink residue pick-up system		0	-	0	0	0	0	0	0	0	✓	0	0	0	0	0
	Control PLC		✓	✓	✓	0	✓	✓	✓	✓	✓	0	✓	✓	✓	✓	✓
	Interface D-SUB 37 poles		✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Integrated cliché laser		-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-
	Ink/doctoring cup		Circle Ø mm	Square / rectangle mm													
Print image dimension max.	40	35	25 x 25 (35)	✓	-	✓	✓	0	✓	✓	-	0	-	0	-	-	
	2x 42	37	26 x 26 (37)	-	-	-	-	✓	-	-	-	-	-	0	-	-	
	60	55	39 x 39 (55)	✓	-	✓	✓	-	✓	✓	✓	0	0	✓	0	-	
	90	85	70 x 70 (85)	✓	✓	✓	✓	-	-	-	✓	0	✓	✓	0	-	
	130	120	85 x 85 (120)	✓	-	✓	✓	-	-	-	✓	0	-	✓	-	-	
	140	130	92 x 92 (130)	0	-	-	0	-	-	0	✓	0	-	-	0	-	
	150	140	99 x 99 (140)	-	-	✓	-	-	-	-	-	0	-	-	-	-	
	210	200	142 x 142 (200)	-	-	-	-	-	-	-	-	-	-	-	-	-	
	60	TSM- transverse doctor blade	50 x 180/340/450	-	-	-	-	-	-	-	-	-	-	0	0	✓	-
	90		80 x 160/320/520	-	-	-	-	-	-	-	-	-	-	0	0	✓	-
130	120 x 340/540/650		-	-	-	-	-	-	-	-	-	-	-	0	-	✓	
140	130 x 340/540/650		-	-	-	-	-	-	-	-	-	-	-	0	-	0	
Rotary		90 x 310	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	
Drive	Pneumatic		0	-	-	-	-	-	✓	-	-	-	-	0	0	0	0
	Electropneumatic		✓	-	-	-	-	-	✓	-	✓	-	✓	0	0	0	0
	Servo-mechanic		-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
	Electromechanic		-	✓	✓	✓	✓	-	-	-	-	✓	-	0	0	0	0
Printing speed	Hand-work place (up to approx. 800 parts/h)		✓	✓	✓	0	-	-	✓	✓	0	✓	✓	✓	✓	✓	✓
	Semi-automatic (up to approx. 800 parts/h)		0	-	✓	0	-	0	0	0	0	✓	0	✓	✓	✓	✓
	Fully automatic (up to approx. 1800 parts/h)		0	-	✓	✓	✓	✓	✓	✓	0	0	✓	0	-	-	-
	High speed (over 1800 parts/h)		-	-	-	-	✓	✓	✓	✓	-	0	-	-	-	-	-

TAMPOPRINT® pad printing machines have been working economically and reliably with electromechanical drive already for decades.

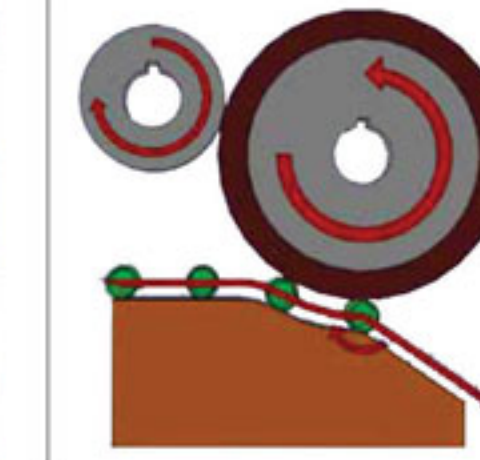
0 = Option
✓ = Yes

STANDARD

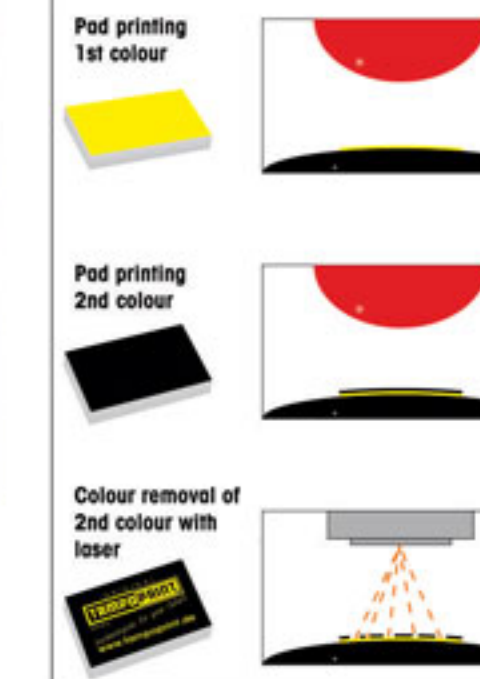
PAD PRINTING PRINCIPLE



"HSC" principle rotary pad printing unit



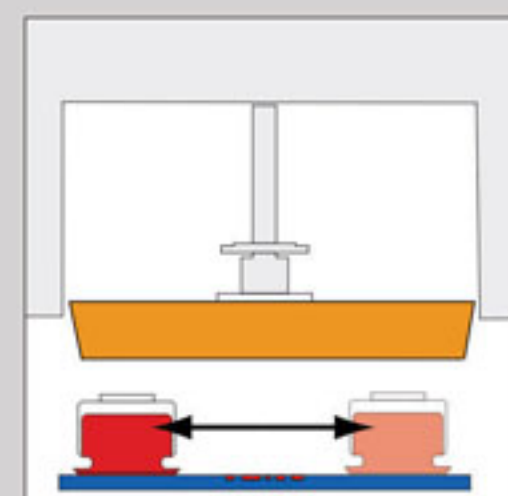
Laser ink removal



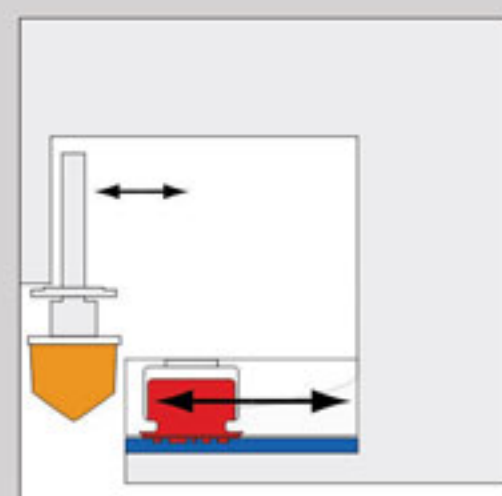
Pad printing First colour

Pad printing Second colour

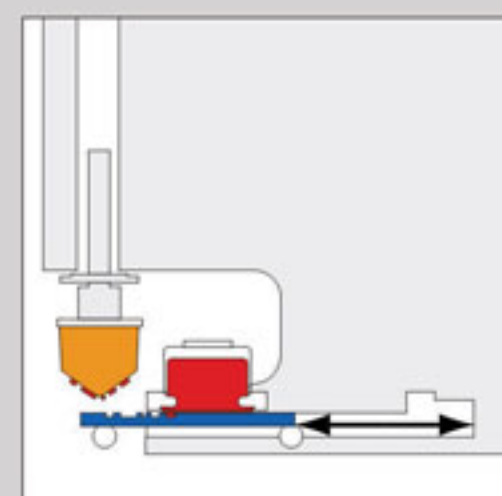
Laser ink removal of second colour



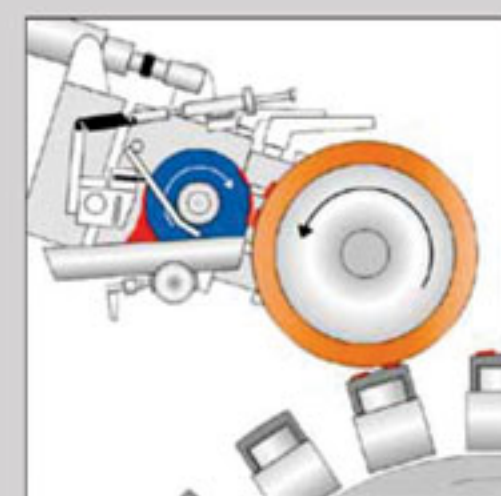
"transverse doctor blade" "hermetic" system



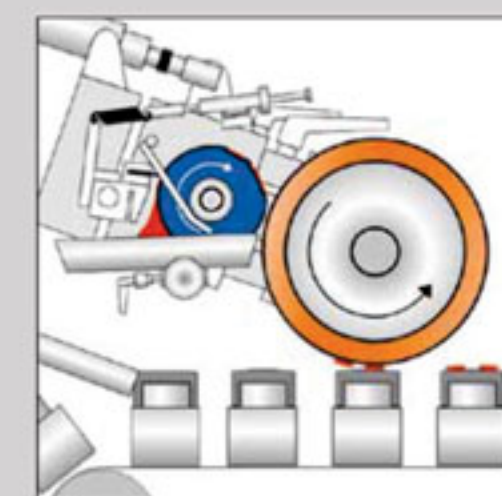
"hermetic" system Ink/doctoring cup and pad movement



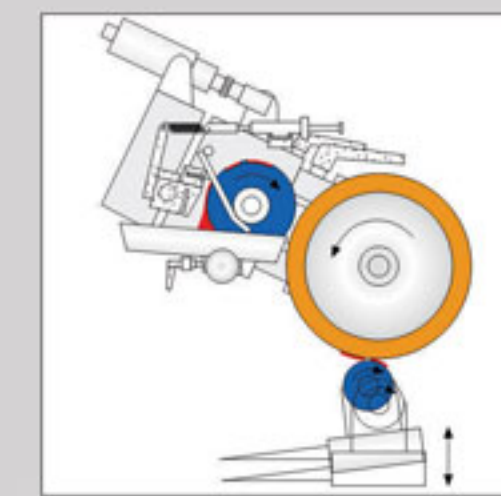
"hermetic" system movement of printing cliché



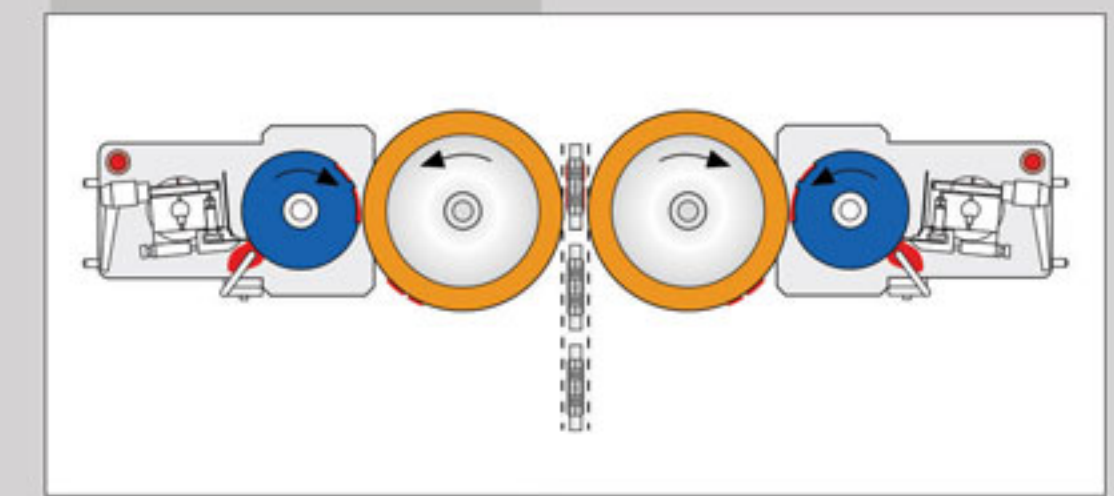
Pad printing system "Rotoprint"



Pad printing system "Continua"



"Rotary" system Horizontal rotary pad printing unit



"Rotary" system Vertical rotary pad printing unit

REFERENCES

AUTOMATED SYSTEMS

Pharma/medical industry



Electronic industry



REFERENCES

AUTOMATED SYSTEMS

Technical plastic parts ...



Mini figure parts in precision pad printing ...



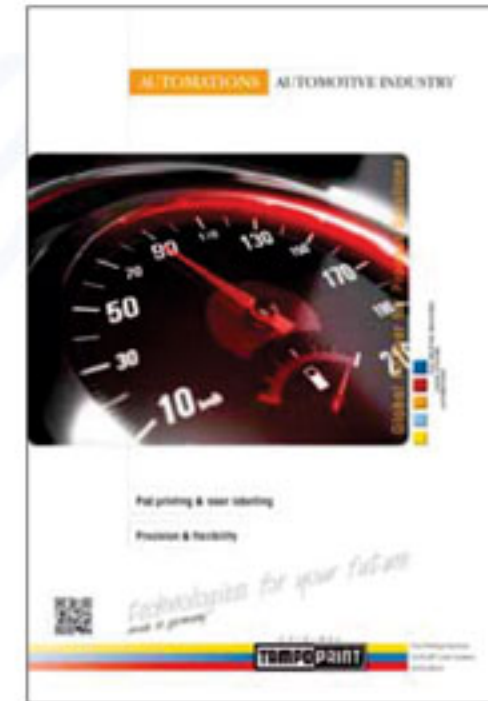
Figure parts ...



REFERENCES

AUTOMATED SYSTEMS

Automotive industry



TAMPOPRINT® Online catalogue



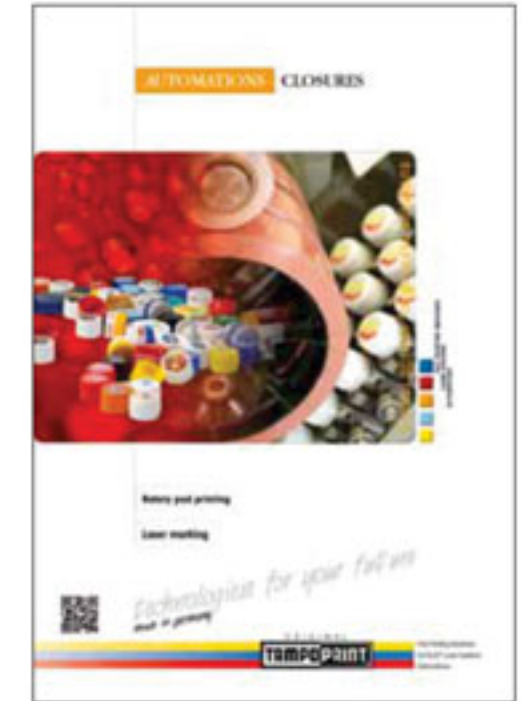
Online pad database



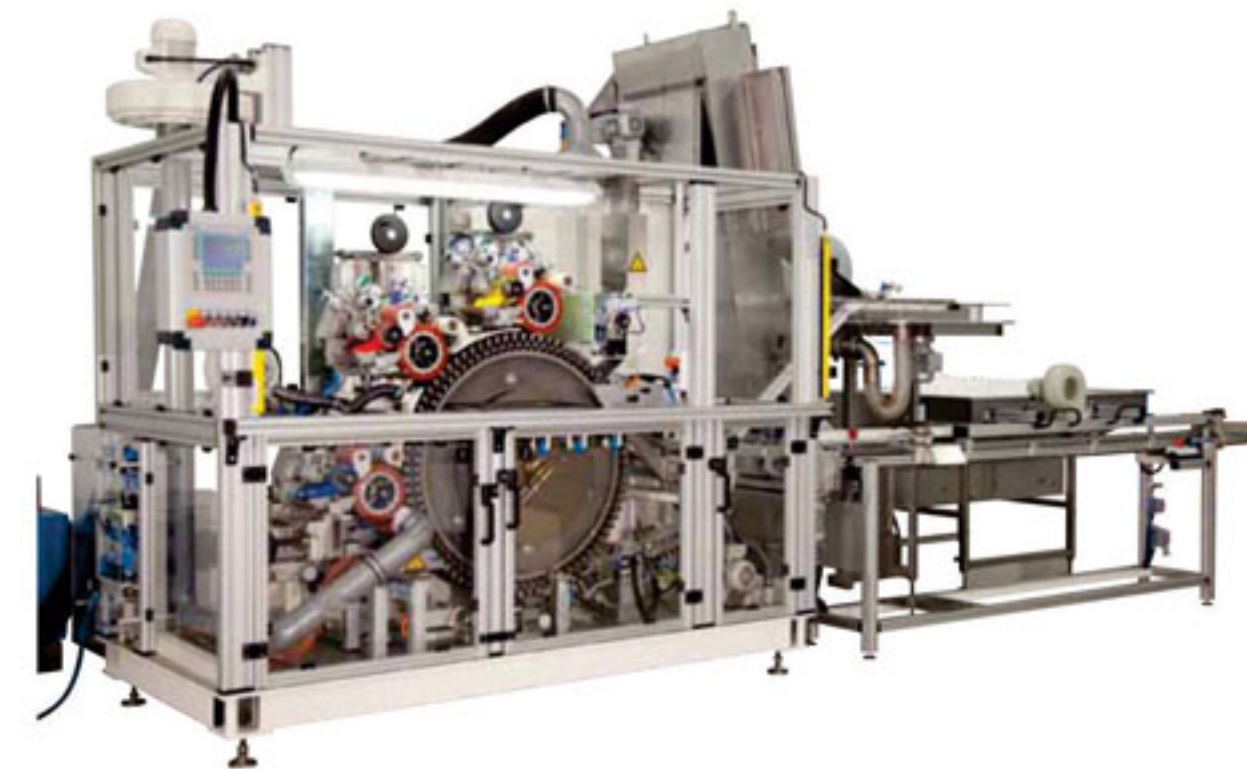
REFERENCES

AUTOMATED SYSTEMS

Closures of all types ...



... in all colours



TAMPOPRINT® Closure Network is an exclusive internet platform with news and developments around the marking of closure caps.



THANK YOU

FOR YOUR INTEREST & YOUR CONFIDENCE

New product designs, markings and plagiarism protection are possible with our printing and marking systems. Benefit from our experience to develop optimised or new manufacturing operations.

Our core competences are industrial pad printing and laser marking. Of course, both processes can be combined using a software which was specifically developed and can be integrated into automations.

Comparing similar decoration processes such as offset printing or screen printing, embossing or etching, one can see that they have reached their physical and economical limits here.

Pad printing and also our laser systems can print or mark concave and also convex or uneven surfaces. Take your time to become acquainted with the pad printing and to develop your own ideas and conceptions.

Pad printing experienced a conversion process in the past decades from the so-called "open" ink/doctoring system to the closed, that is "hermetic", ink/doctoring system (invented by TAMPOPRINT® and presented to the market for the first time in 1983 with the pad printing machine "ENCODER").

Some years ago, a further technical revolution was included in the standard pad printing machine: integrated printing cliché manufacture during the print process.

Rotary pad printing delivers speed combined with frequent motif changes.

The "hermetic" system and its use dominates the market today.

The advantages for the operator are also:

- ✓ no health problems, as for example by solvent evaporation
- ✓ constant ink consistency
- ✓ cleanliness and saving of time during ink change
- ✓ steady printing process
- ✓ no drying up of printing ink during downtimes
- ✓ no drying up of printing ink during downtimes
- ✓ fast change over of the pad printing machines

Send us your enquiry!

Your TAMPOPRINT® AG

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