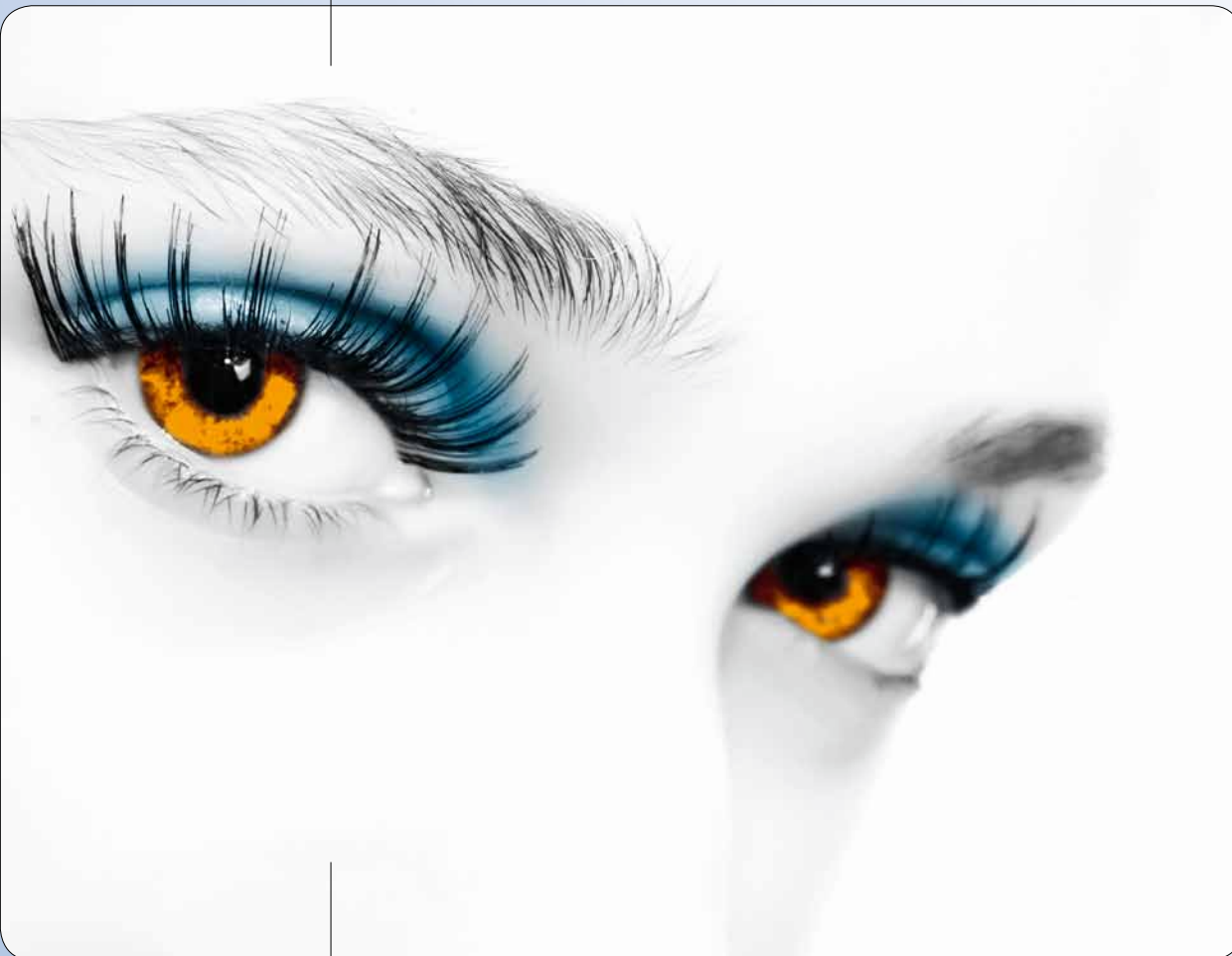


LEADS

PAD PRINTING



PAD PRINTING MACHINES
LASER SYSTEMS
AUTOMATIONS
ACCESSORIES
SERVICE

STAND-ALONE Pad printing machines

INTEGRATED Pad printing machines

ORIGINAL

TAMPOPRINT®

60 YEARS
1956-2016

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



since 1998
page 16/17



CONCENTRA



since 2003
page 18/19



HYBRID



since 2007
page 20/21



RTI



since 1981
page 22/23

SPEED



since 2010
page 24/25

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

Headquarters Germany





TAMPOPRINT® AG Germany
Special machine construction since 1978
Assembly hall



TAMPOPRINT® IBERIA S.A.U.,
Spain



TAMPOPRINT® Int. Corp., USA



Permanent machine exhibition
in the head office in Germany



ALFA TOOLS® GmbH, Spezialmaschinenfabrik
Sister company



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.

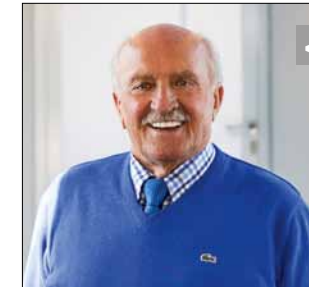
Thanks to the invention of the industrial pad printing process by Mr. Wilfried Philipp in 1968, enormous process changes were made possible to the production processes in the plastics industry.

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.



2016 – 60th 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



ORIGINAL
TAMOPRINT

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

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TAMOPRINT

NEW POSSIBILITIES WILL OPEN UP



made in germany

STANDARD ENTRANCE 90

Unbeatable

Worldwide the ENTRANCE 90 is the first electro-mechanically driven pad printing machine with an unbeatable price-performance ratio in its class.

It is universally deployable and is priced in direct competition with pneumatically driven pad printing machines. With the great benefit that it does not require compressed air and therefore can be operated wherever there is an electrical socket.

Particular attention is paid in the ENTRANCE 90 to the spacious working space. This allows the operator to remain flexible in the product diversity of its parts and can easily print with only one pad printing machine components in a variety of sizes.

The ENTRANCE 90 is a pad printing machine at an attractive market price – 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



ORIGINAL
TAMPOPRINT

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/docting 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

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TAMPOPRINT

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 3000/60-1 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 3000/60-1**
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 for
the toys industry



Reference: Automation for
the medical industry



Reference: Automation for
the medical industry



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 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).



< ENCODER 40/50 EP



< ENCODER 40/50 EP/1



Overhead version –
in combination with
vacuum control unit +
ink/docting cup with
piston + bellows

TECHNOLOGY see page 17



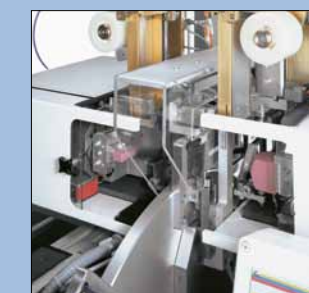
^ ENCODER /1 version with ink
residue pick-up system



^ ENCODER 50 EP/1 with stro-
ke extension and
external control unit



^ Reference: Light switch
frames ENCODER EP



^ Reference:
ENCODER EP/1 90°

ORIGINAL
TAMPOPRINT

THE COMBINATION



ORIGINAL
TAMMPRINT®

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 pad lift and carriage movement can be provided as a pneumatic or servomechanical drive kit.

TSM – universal 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 – universal 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 all do-it-yourself printing cliché types such as e.g. the environmental-ly friendly plastic plates that can be rinsed off with water.

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



< **TSM 60/90**
universal transverse doctor
blade kit



< **TSM 130**
universal transverse doctor
blade kit



< **TSM 60/90**
universal multiple colour kit Solo



< **TSM 130**
universal multiple colour kit Solo

TECHNOLOGY see page 4–11



^ **TSM 60/90 universal transverse doctor blade kit –**
replaces our TSQ series



^ **TSM 60/90 universal**
multiple colour kit Solo



^ **TSM 60/90 universal**
multiple colour kit Solo

ORIGINAL
TAMMPRINT®

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 ROUNDAABOUT TRAFFIC



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TAMPOPRINT

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.

Doctor blade unit drive offers a high speed. 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 work-pieces



^ CONCENTRA 60/90-4
+ light curtain
+ manual x-y cross table



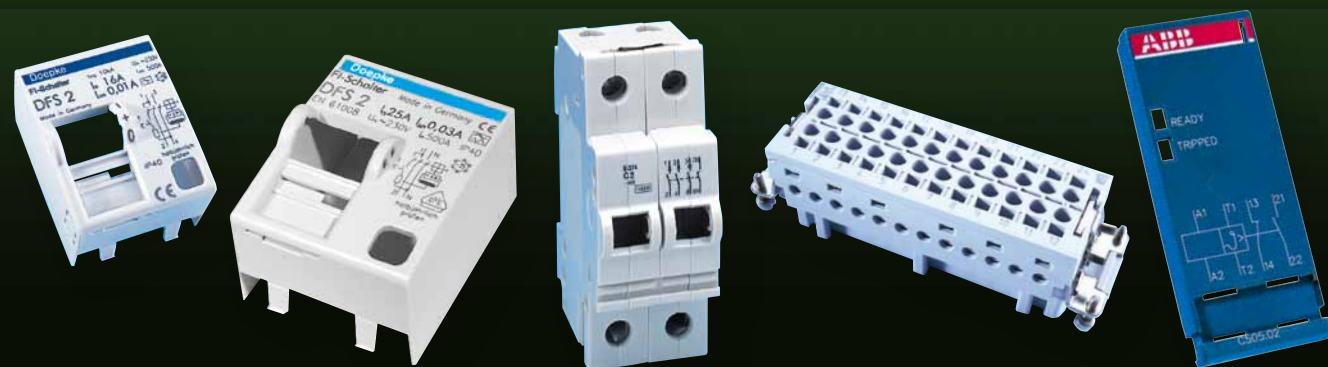
^ CONCENTRA 90-6
+ module Linear axis
Ideal for white goods



^ 6-colour arrangement
+ module Linear axis

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TAMPOPRINT

WITH THE SPEED OF LIGHT TO THE TARGET



STANDARD HYBRID -SERIES



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**

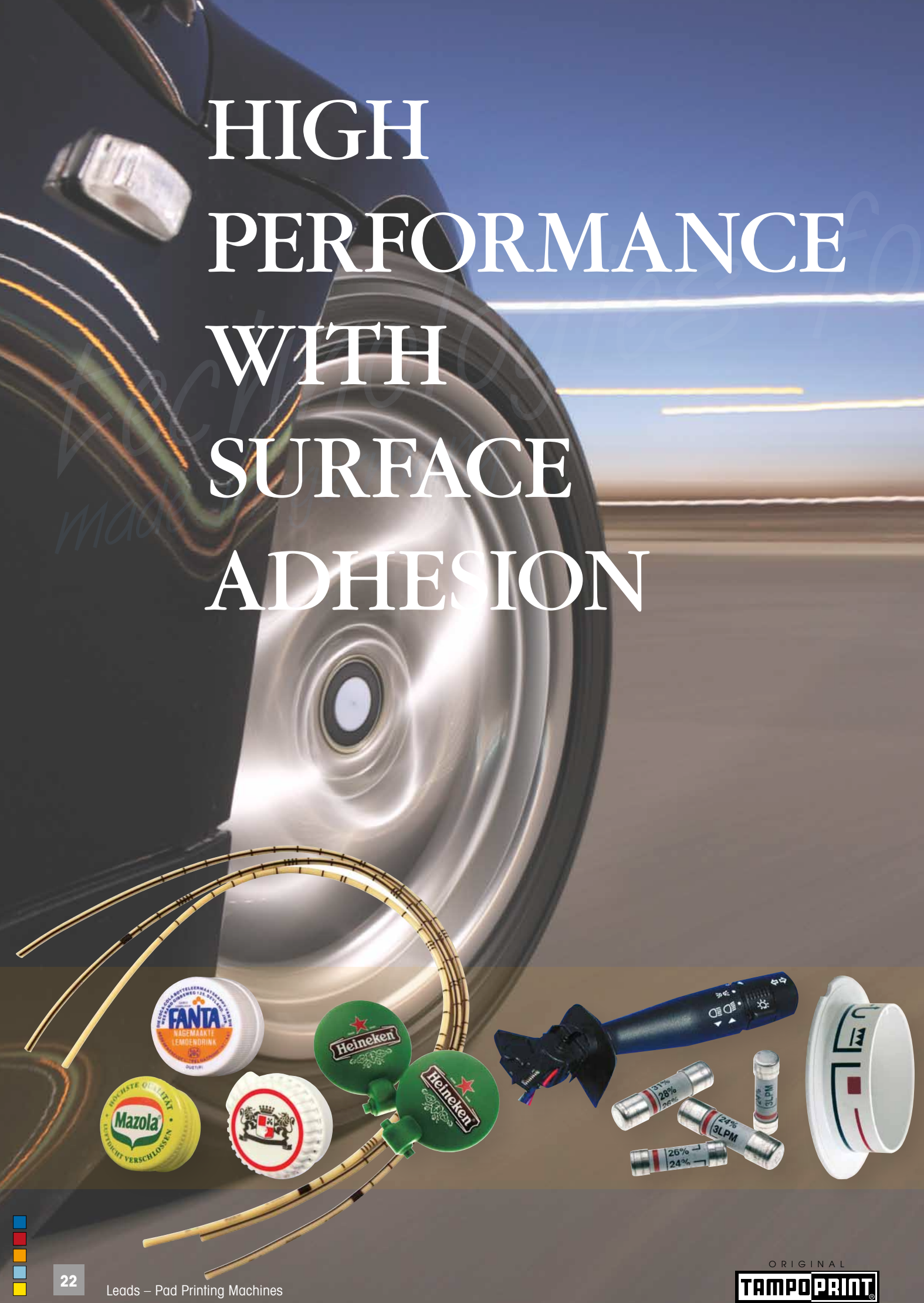


**2 printing stations equipped
with microflex cliché band**



**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 H-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

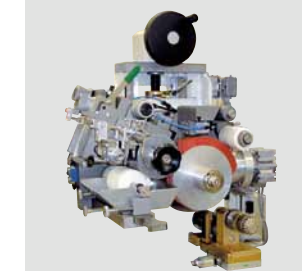
Horizontally or vertically operating rotary printing units. By means of this positioning, the products delivered can be printed from above or from the side. Particularly for cylindrical and vertically standing parts, the V-RTI 3000, the further development of the tried and tested V-RTI 2000 is the ideal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

The RTI COMPACT II E

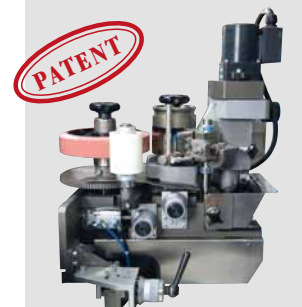
is a single-colour rotary pad printing machine. Designed as a manual workstation, it is primarily used to print circular cylindrical or flat parts. RTI COMPACT II E equipped with an RTI/2-100 printing unit is an economic solution.



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

TECHNOLOGY see page 12–13



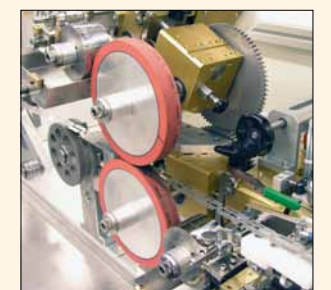
RP Pad roller



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



RTI COMPACT II E
Jig in printing position



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

HER PULSE: 9000



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



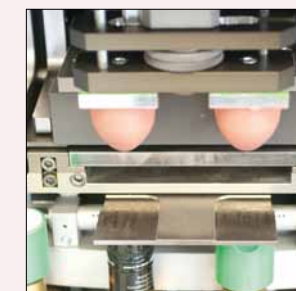
^ **Integrated model**
SPEED 40-2



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



^ **... proven speed change**
system



^ **Speed guaranteed ...**
Misprint device

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.

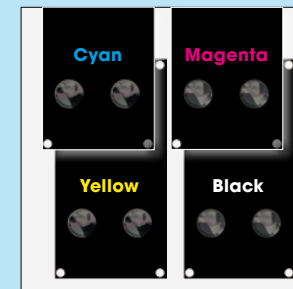
You will achieve perfect results with the pad printing ink IPP which was specially developed by TAMPOPRINT for the photorealistic screen printing.



< 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

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TAMPOPRINT®

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TAMPOPRINT®

COMBINING IS WELCOME



ORIGINAL
TAMPOPRINT

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



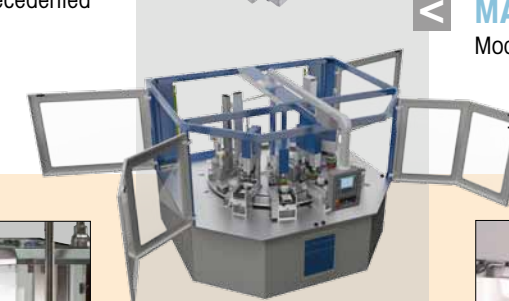
< **MODUL 2010**
Example: 2x HERMETIC 9-11 in stainless steel construction for hygiene-critical applications (pharma industry)



< **LINEAR MODUL 2010**
flexible due to the Vario-Unit, fast, for large parts



< **SPEED MODUL 2010**
extreme outputs for small parts



< **MAP**
Modular Automation Platform

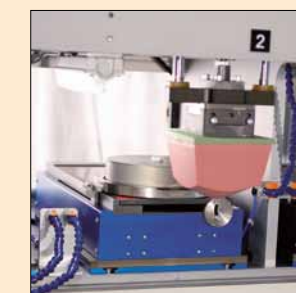
TECHNOLOGY see page 18



^ 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

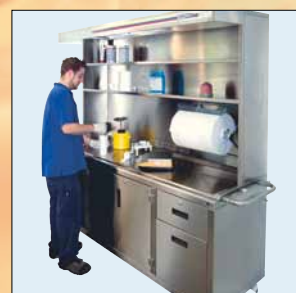
FEELING AT EASE IN GOOD HANDS



Consumables and accessories for every target group



Everything for the application engineer from stock

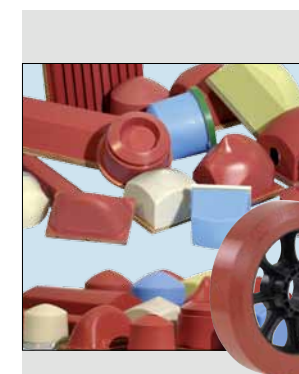


Special work-place equipment for the pad printer

SERVICE

EVERYTHING UNDER ONE ROOF RELIEVES

- > **We will advise you**
Our **warranties** 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.
- > 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



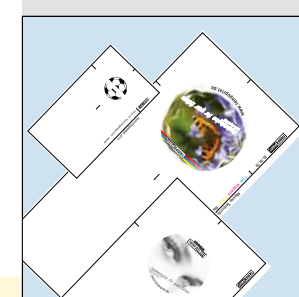
Pad printing ink & printing auxiliaries

Pad printing ink for all pad printing systems



Pad printing clichés

Processed, unprocessed, "Do-it-yourself"

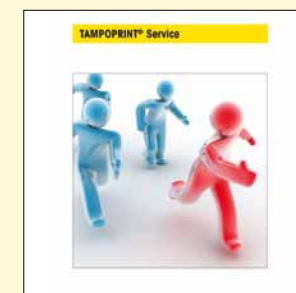


Artwork production / DTP

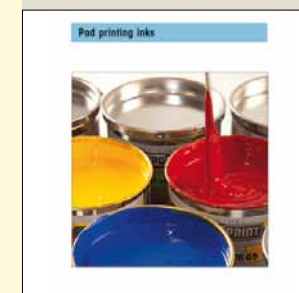
Professional artwork production



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

TAMOPRINT 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 TAMOPRINT 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 TAMOPRINT AG. The combination of ink and variable text data as a fully automated system solution is a speciality of TAMOPRINT AG. It can be ideally combined in the MODUL 2010. There is also the possibility to roughen the surfaces to achieve an optimum surface adhesion of the pad printing ink (e.g. chrome-plated 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.

CLICHE LASER PLUS

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 TAMOPRINT.



MOF series

MOF-PROMO HP automated system for promotion actions on the inside of closures or liners.



Laser system components

Ex.: UV 315



CLICHE LASER PLUS

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



CLICHE LASER PLUS –
Multi-cliché plate



CLICHE LASER PLUS –
simple and clear operation

THE CORRECT ONE

YOUR SELECTION GUIDE

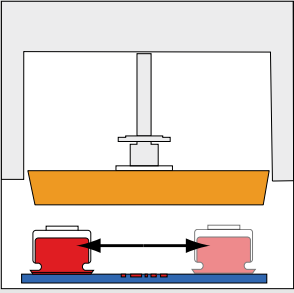
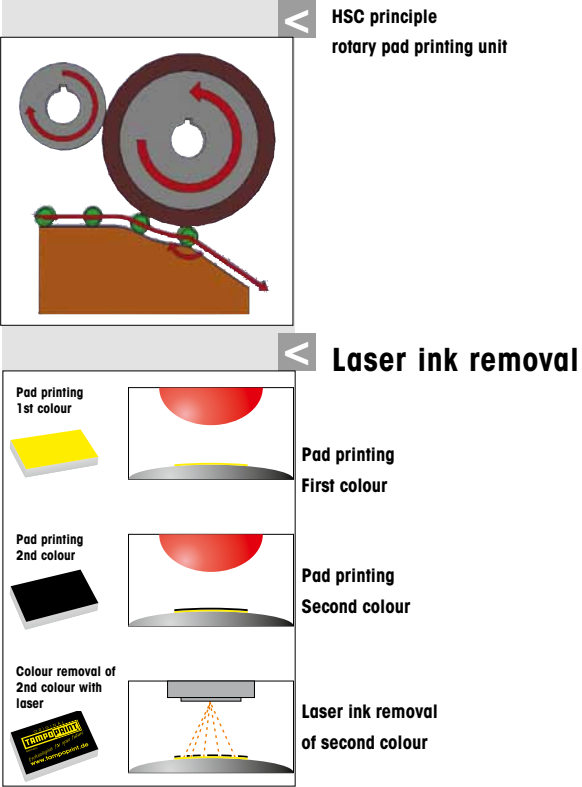
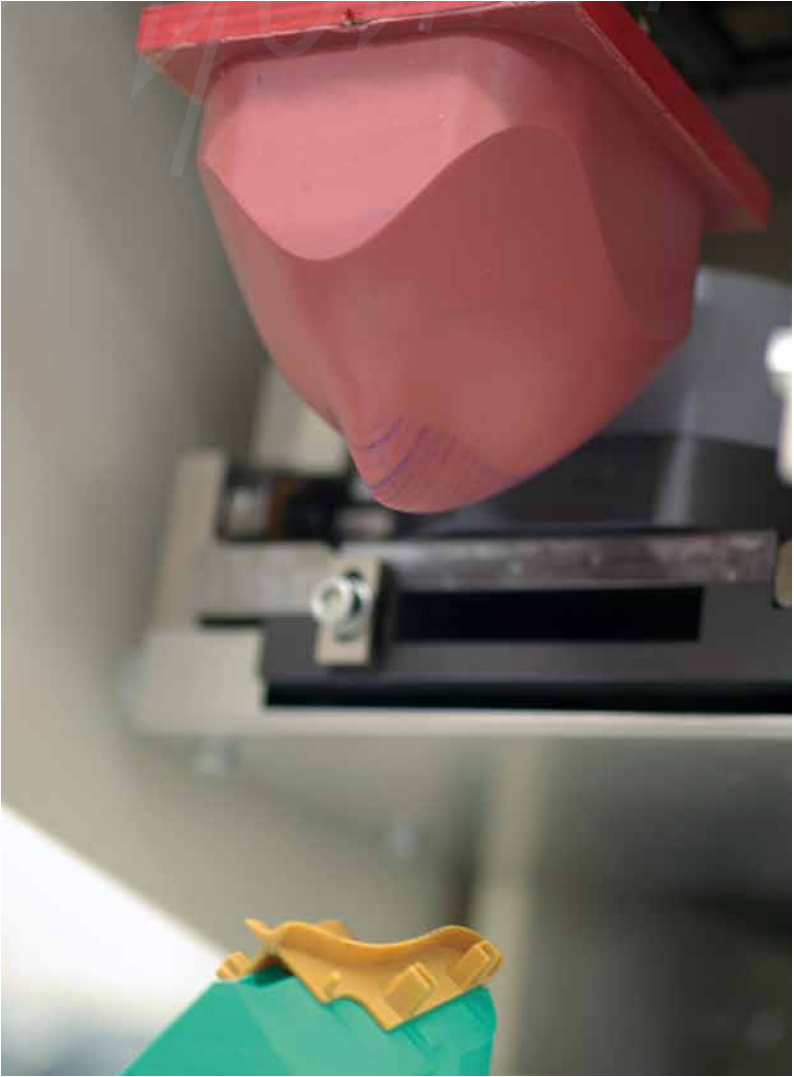
Standard pad printing machines Series				SEALED INK CUP E	ENTRANCE 90	HERMETIC	RAPID	SPEED 40-2	ENCODER EP	V-DUO	CONCENTRA	RTI rotation	HYBRID 90-2	TSM 60/90 multiple colour kit Solo	TSM 130 multiple colour kit Solo	TSM 60/90 transverse doctor kit	TSM 130 transverse doctor kit
Equipment	1-colour			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	2-colour			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4- to 6-colour			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ink residue pick-up system			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Control PLC			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Interface D-SUB 37 poles			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Integrated cliché laser			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Print image dimension max.	Ink/doctoring cup	Circle Ø mm	Square / rectangle mm														
	40	35	25 x 25 (35)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	2x 42	37	26 x 26 (37)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	60	55	39 x 39 (55)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	90	85	70 x 70 (85)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	130	120	85 x 85 (120)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	140	130	92 x 92 (130)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	150	140	99 x 99 (140)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	210	200	142 x 142 (200)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	60	TSM transverse doctor blade	50 x 180/340/450	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	90		80 x 160/320/520	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	130		120 x 340/540/650	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	140		130 x 340/540/650	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Rotary		90 x 310	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drive	Pneumatic			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Electropneumatic			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Servo-mechanic			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Electromechanic			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Printing speed	Hand-work place (up to approx. 800 parts/h)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Semi-automatic (up to approx. 800 parts/h)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Fully automatic (up to approx. 1800 parts/h)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	High speed (over 1800 parts/h)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

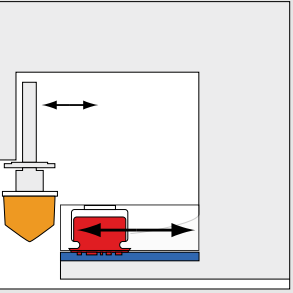
0 = Option
✓ = Yes

STANDARD

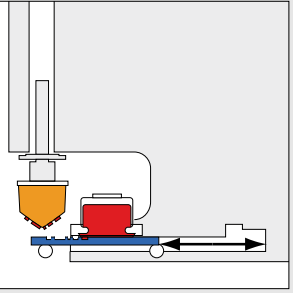
PAD PRINTING PRINCIPLE



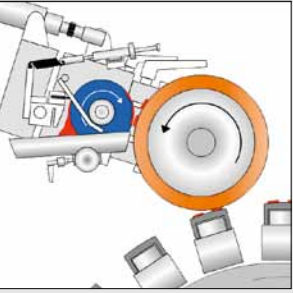
transverse doctor blade
"hermetic" system



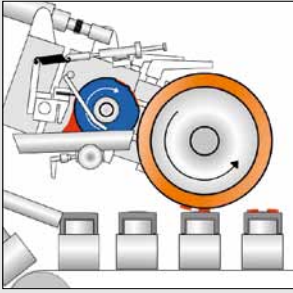
"hermetic" system
ink/doctoring cup and pad
movement



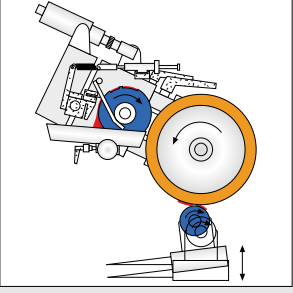
"hermetic" system
movement of printing cliché



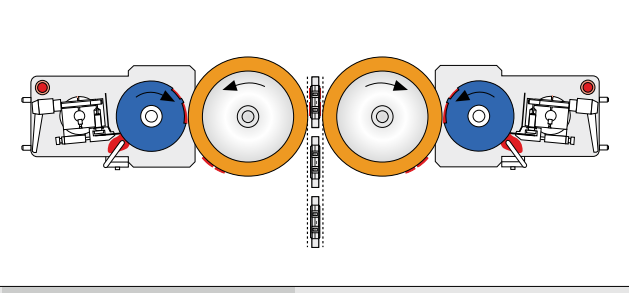
Pad printing system
ROTOPRINT



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 ...



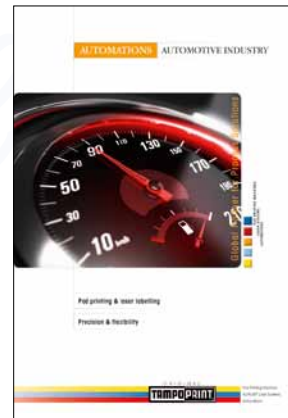
Figure parts ...



REFERENCES

AUTOMATED SYSTEMS

Automotive industry



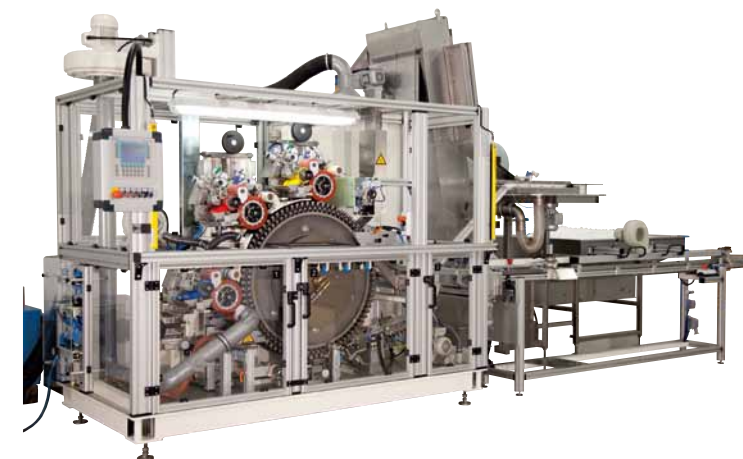
REFERENCES

AUTOMATED SYSTEMS

Closures of all types ...



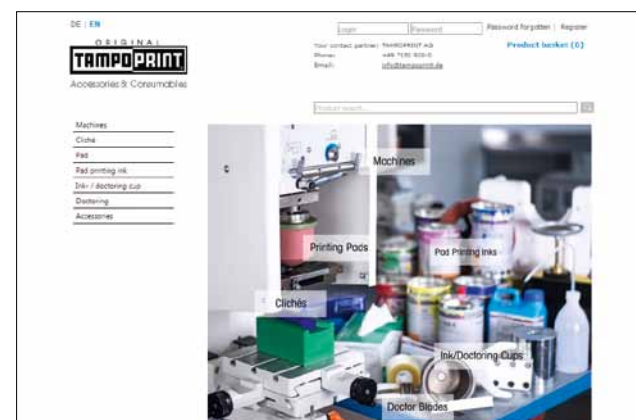
... in all colours



Online pad database



TAMPOPRINT Online catalogue



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
- ✓ minimized rejects during setup
- ✓ fast change over of the pad printing machines

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O R I G I N A L



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TAMPOPRINT products are permanently updated to keep pace with the latest technological developments. For this reason, figures and descriptions are non-binding. Our machines are manufactured based on the currently valid European Machinery Directives as well as the European product standards EN 1010 – 1 and EN 1010 – 2.

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LEADS

PAD PRINTING



ACCESSORIES **PAD PRINTING MACHINES**
SERVICE **LASER SYSTEMS**
AUTOMATIONS

TECHNOLOGY

STAND-ALONE / INTEGRATED Pad printing machines

ORIGINAL

TAMPOPRINT®

60 YEARS
1956-2016

Pad Printing Machines
Laser Systems ALFALAS®
Automations

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General note on technology:

All details on cycles/hour (speed data) are based on a continuous run on the standard design, i.e. without attachments. These are also dependent on the operator as well as correct setting of the pad printing machine.

SPEED 40-2		SPEED 40-2		SPEED 40-2		SPEED 40-2		SPEED 40-2	
Item No. Integrated model		01 06 11 ¹⁾		01 06 10		01 06 12		01 06 13	
Drive		Electromechanic, AC asynchronous motor and frequency converter; connecting cable (5 m) with plug connection at the machine; with control cabinet		Electromechanic, AC asynchronous motor and resolver, without controller; without connecting cable; without control cabinet		Electromechanic, AC asynchronous motor and servo controller; connecting cable (5 m) with plug connection at the machine; without control cabinet		Without motor, externally driven (input shaft gear)	
Misprint device		optional		optional		optional		optional	
Single cycle		yes		yes		yes		yes	
Multiple printing		yes		yes		yes		yes	
Continuous run		yes		yes		yes		yes	
Piece counter		yes		–		–		–	
Variable speed control		yes		external		external		–	
Cycles / hour		max.	1.500–9.000		1.500–9.000		1.500–9.000		1.500–9.000
Ink/doctoring cup size		Ø mm	2 x Ø 42		2 x Ø 42		2 x Ø 42		2 x Ø 42
Variable doctoring contact pressure		no		no		no		no	
Cliché size		mm	150 x 110		150 x 110		150 x 110		150 x 110
Print image size max.		Ø mm	2 x Ø 37		2 x Ø 37		2 x Ø 37		2 x Ø 37
Pad stroke onto workpiece		mm	60		60		60		60
Pad stroke onto cliché		mm	23		23		23		23
Pad installation height max.		mm	60		60		60		60
Force of pressure per pad / machine		N	270 / 550		270 / 550		270 / 550		270 / 550
Connected load		kW	1,0		0,6		1,0		–
Power supply		V/phase	400V/3/N/PE		400V/3/N/PE		400V/3/N/PE		–
Interface		D-SUB 37-pole		–		–		–	
Power frequency		Hz	50–60		50–60		50–60		–
Control		PLC		–		–		–	
Control voltage		V/DC	24		–		24		–
Prefuse		A	16		16		16		–
Pneumatic supply fine filter 5 µm		bar	6*		6*		6*		6*
Air consumption / cycle		NL	0,1*		0,1*		0,1*		0,1*
Width		mm	297		297		297		297
Depth		mm	430		430		430		430
Height		mm	592		592		592		592
Weight		approx. kg	38		38		38		38

* if option misprint device is used
1) floor standing model

TSM		TSM 60/90 universal multiple colour kit Solo	TSM 60/90 universal multiple colour kit Solo	TSM 60/90 universal multiple colour kit Solo	TSM 60/90 universal multiple colour kit Solo
Basic machine, Item No.		25 63 00	25 63 00	25 63 00	25 63 00
Machine version					
Printing carriage forward / backward		pneumatic/pneumatic	servo/servo	pneumatic/servo	servo/pneumatic
Pressure tappet up / down					
Ink distributing unit “Solo”		2x Ø 60 – 2 colours – 5"	2x Ø 60 – 2 colours – 5"	2x Ø 60 – 2 colours – 5"	2x Ø 60 – 2 colours – 5"
		3x Ø 60 – 3 colours – 5"	3x Ø 60 – 3 colours – 5"	3x Ø 60 – 3 colours – 5"	3x Ø 60 – 3 colours – 5"
		4x Ø 60 – 4 colours – 5"	4x Ø 60 – 4 colours – 5"	4x Ø 60 – 4 colours – 5"	4x Ø 60 – 4 colours – 5"
		5x Ø 60 – 5 colours – 5"	5x Ø 60 – 5 colours – 5"	5x Ø 60 – 5 colours – 5"	5x Ø 60 – 5 colours – 5"
		2x Ø 90 – 2 colours – 6,25"	2x Ø 90 – 2 colours – 6,25"	2x Ø 90 – 2 colours – 6,25"	2x Ø 90 – 2 colours – 6,25"
		3x Ø 90 – 3 colours – 6,25"	3x Ø 90 – 3 colours – 6,25"	3x Ø 90 – 3 colours – 6,25"	3x Ø 90 – 3 colours – 6,25"
		4x Ø 90 – 4 colours – 6,25"	4x Ø 90 – 4 colours – 6,25"	4x Ø 90 – 4 colours – 6,25"	4x Ø 90 – 4 colours – 6,25"
Ink residue pick-up system		option	option	option	option
Single cycle		yes	yes	yes	yes
Multiple printing		yes	yes	yes	yes
Piece counter		yes	yes	yes	yes
Variable speed control		yes	yes	yes	yes
Cycles / hour					
continuous run		200–1.300	200–1.300	200–1.300	200–1.300
single printing (Start/Stop mode)	max.	1.300	1.300	1.300	1.300
double printing (Start/Stop mode)		650	650	650	650
triple printing (Start/Stop mode)		430	430	430	430
Ink/doctoring cup size	Ø mm	max. 5x 60 / 4x 90	max. 5x 60 / 4x 90	max. 5x 60 / 4x 90	max. 5x 60 / 4x 90
Variable doctoring contact pressure		yes	yes	yes	yes
Cliché size, version “Solo”					
Depth x Width	mm	5x 140 x 70 4x 215 x 100	5x 140 x 70 4x 215 x 100	5x 140 x 70 4x 215 x 100	5x 140 x 70 4x 215 x 100
Print image size, version “Solo”	Ø mm	5x 55 / 4x 85	5x 55 / 4x 85	5x 55 / 4x 85	5x 55 / 4x 85
Variable pad stroke onto workpiece	mm	10–70	10–80	10–80	10–70
Variable pad stroke onto cliché	mm	10–130	10–120	10–120	10–130
Pad installation height, version “Solo”	mm	87 / 98	87 / 98	87 / 98	87 / 98
Force of pressure, machine (with 6 bar) max.	N	3.000	3.500	3.500	3.000
Drive		electropneumatic	servo mechanical	electropneumatic servo mechanical	servo mechanical electropneumatic
Connected load	kW	0,5	16	16	16
Power supply (special voltage possible)	V/phase	230V/1/N/PE	400V/3/N/PE	400V/3/N/PE	400V/3/N/PE
Interface		D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole
Power frequency	Hz	50 / 60	50 / 60	50 / 60	50 / 60
Control		PLC	PLC	PLC	PLC
Control voltage	V/DC	24	24	24	24
Prefuse	A	16	16	16	16
Pneumatic supply fine filter 5 µm	bar	6	6	6	6
Air consumption	NL	17	5	17	5
Width	mm	710–1.145 (depending on version)	710–1.145 (depending on version)	710–1.145 (depending on version)	710–1.145 (depending on version)
Depth	mm	1.140	1.140	1.140	1.140
Height	mm	910 without stand 1.710 with stand	910 without stand 1.710 with stand	910 without stand 1.710 with stand	910 without stand 1.710 with stand
Weight	approx. kg	400–1.050 (depending on version)	400–1.050 (depending on version)	400–1.050 (depending on version)	400–1.050 (depending on version)

TSM		TSM 130 universal multiple colour kit Solo		TSM 130 universal multiple colour kit Solo		TSM 130 universal multiple colour kit Solo		TSM 130 universal multiple colour kit Solo	
Basic machine, Item No.		25 65 00		25 65 00		25 65 00		25 65 00	
Machine version		pneumatic/pneumatic		servo/servo		pneumatic/servo		servo/pneumatic	
Printing carriage forward / backward						servo		pneumatic	
Pressure tappet up / down						pneumatic		servo	
Ink distributing unit “Solo”		2x Ø 130 – 2 colours – 8,75"		2x Ø 130 – 2 colours – 8,75"		2x Ø 130 – 2 colours – 8,75"		2x Ø 130 – 2 colours – 8,75"	
		3x Ø 130 – 3 colours – 8,75"		3x Ø 130 – 3 colours – 8,75"		3x Ø 130 – 3 colours – 8,75"		3x Ø 130 – 3 colours – 8,75"	
		4x Ø 130 – 4 colours – 8,75"		4x Ø 130 – 4 colours – 8,75"		4x Ø 130 – 4 colours – 8,75"		4x Ø 130 – 4 colours – 8,75"	
		5x Ø 130 – 5 colours – 8,75"		5x Ø 130 – 5 colours – 8,75"		5x Ø 130 – 5 colours – 8,75"		5x Ø 130 – 5 colours – 8,75"	
		2x Ø 150 – 2 colours – 10"		2x Ø 150 – 2 colours – 10"		2x Ø 150 – 2 colours – 10"		2x Ø 150 – 2 colours – 10"	
		3x Ø 150 – 3 colours – 10"		3x Ø 150 – 3 colours – 10"		3x Ø 150 – 3 colours – 10"		3x Ø 150 – 3 colours – 10"	
		4x Ø 150 – 4 colours – 10"		4x Ø 150 – 4 colours – 10"		4x Ø 150 – 4 colours – 10"		4x Ø 150 – 4 colours – 10"	
Ink residue pick-up system		option		option		option		option	
Single cycle		yes		yes		yes		yes	
Multiple printing		yes		yes		yes		yes	
Piece counter		yes		yes		yes		yes	
Variable speed control		yes		yes		yes		yes	
Cycles / hour									
continuous run		200–800		600–1.300		200–800		600–1.200	
single printing (Start/Stop mode)	max.	800		1.200		800		1.200	
double printing (Start/Stop mode)		400		650		400		600	
triple printing (Start/Stop mode)		270		430		270		400	
Ink/doctoring cup size max.	Ø mm	max. 5x 130 / 4x 150		max. 5x 130 / 4x 150		max. 5x 130 / 4x 150		max. 5x 130 / 4x 150	
Variable doctoring contact pressure		yes		yes		yes		yes	
Cliché size, version “Solo”	mm	5x 300 x 150		5x 300 x 150		5x 300 x 150		5x 300 x 150	
		4x 350 x 160		4x 350 x 160		4x 350 x 160		4x 350 x 160	
Print image size, version “Solo”	Ø mm	5x 120 / 4x 140		5x 120 / 4x 140		5x 120 / 4x 140		5x 120 / 4x 140	
Variable pad stroke onto workpiece	mm	20–100		20–100		20–100		20–100	
Variable pad stroke onto cliché	mm	20–160		20–160		20–160		20–160	
Pad installation height, version “Solo”	mm	120		120		120		120	
Force of pressure, machine (with 6 bar) max.	N	4.500 / 7.300		7.500		4.500 / 7.300		7.500	
Drive		electropneumatic		servo mechanical		electropneumatic		servo mechanical	
Connected load	kW	0,5		6		1,5		5	
Power supply (special voltage possible)	V/phase	230V/1/N/PE		400V/3/N/PE		400V/3/N/PE		400V/3/N/PE	
Interface		D-SUB 37-pole		D-SUB 37-pole		D-SUB 37-pole		D-SUB 37-pole	
Power frequency	Hz	50 / 60		50 / 60		50 / 60		50 / 60	
Control		PLC		PLC		PLC		PLC	
Control voltage	V/DC	24		24		24		24	
Prefuse	A	16		32		16		32	
Pneumatic supply fine filter 5 µm	bar	6		6		6		6	
Air consumption	NL	34 / 45		4		28 / 39		10	
Width	mm	1.000–1.434 (depending on version)		1.000–1.434 (depending on version)		1.000–1.434 (depending on version)		1.000–1.434 (depending on version)	
Depth	mm	1.560		1.560		1.560		1.560	
Height	mm	1.140 without stand 1.920 with stand		1.140 without stand 1.920 with stand		1.140 without stand 1.920 with stand		1.140 without stand 1.920 with stand	
Weight	approx. kg	1.000 (depending on version)		1.000 (depending on version)		1.000 (depending on version)		1.000 (depending on version)	



TSM		TSM 60/90 universal transverse doctor kit	TSM 60/90 universal transverse doctor kit	TSM 60/90 universal transverse doctor kit	TSM 60/90 universal transverse doctor kit
Basic machine, Item No.		25 63 00	25 63 00	25 63 00	25 63 00
Machine version Printing carriage forward / backward Pressure tappet up / down		pneumatic/pneumatic	servo/servo	pneumatic/servo	servo/pneumatic
Ink distributing unit “transverse doctor blade”	mm	Ø 60 – 1-coloured Ø 90 – 1-coloured Ø 90 – 2-coloured	Ø 60 – 1-coloured Ø 90 – 1-coloured Ø 90 – 2-coloured	Ø 60 – 1-coloured Ø 90 – 1-coloured Ø 90 – 2-coloured	Ø 60 – 1-coloured Ø 90 – 1-coloured Ø 90 – 2-coloured
Ink residue pick-up system		Option	Option	Option	Option
Single cycle		yes	yes	yes	yes
Multiple printing		yes	yes	yes	yes
Piece counter		yes	yes	yes	yes
Variable speed control		yes	yes	yes	yes
Cycles / hour					
continuous run		200–1.000	200–1.100	200–1.100	200–1.000
single printing (Start/Stop mode)	max.	1.000	1.100	1.100	1.000
double printing (Start/Stop mode)		420	450	450	420
triple printing (Start/Stop mode)		310	330	330	310
Ink/doctoring cup size	Ø mm	42 / 60 / 90	42 / 60 / 90	42 / 60 / 90	42 / 60 / 90
Variable doctoring contact pressure		yes	yes	yes	yes
Cliché size, version “transverse doctor blade” Depth x Length	mm	70 x 350 / 510 / 710 100 x 440 / 600 / 800	70 x 350 / 510 / 710 100 x 440 / 600 / 800	70 x 350 / 510 / 710 100 x 440 / 600 / 800	70 x 350 / 510 / 710 100 x 440 / 600 / 800
Cliché size, version “transverse doctor blade – 2C”, Depth x Length	mm	2x 100 x 380	2x 100 x 380	2x 100 x 380	2x 100 x 380
Print image size, version “transverse doctor blade” Depth x Length max.	mm	50 x 180 / 340 / 450 80 x 160 / 320 / 520	50 x 180 / 340 / 450 80 x 160 / 320 / 520	50 x 180 / 340 / 450 80 x 160 / 320 / 520	50 x 180 / 340 / 450 80 x 160 / 320 / 520
Print image size, version “transverse doctor blade – 2C”, Depth x Length max.	mm	2x 80 x 190	2x 80 x 190	2x 80 x 190	2x 80 x 190
Variable pad stroke onto workpiece	mm	10–70	10–80	10–80	10–70
Variable pad stroke onto cliché	mm	10–130	10–120	10–120	10–130
Pad installation height, version “transverse doctor blade”	mm	150	150	150	150
Pad installation height, version “transverse doctor blade – 2C”	mm	110	110	110	110
Force of pressure machine (with 6 bar) max.	N	3.000	3.500	3.500	3.000
Drive		electropneumatic	servo mechanical	electropneumatic servo mechanical	servo mechanical electropneumatic
Connected load	kW	0,5	16	16	16
Power supply (special voltage possible)	V/phase	230V/1/N/PE	400V/3/N/PE	400V/3/N/PE	400V/3/N/PE
Interface		D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole
Power frequency	Hz	50 / 60	50 / 60	50 / 60	50 / 60
Control		PLC	PLC	PLC	PLC
Control voltage	V/DC	24	24	24	24
Prefuse	A	16	16	16	16
Pneumatic supply fine filter 5 µm	bar	6	6	6	6
Air consumption	NL	17	5	17	5
Width	mm	710–1.145 (depending on version)	710–1.145 (depending on version)	710–1.145 (depending on version)	710–1.145 (depending on version)
Depth	mm	1.140	1.140	1.140	1.140
Height	mm	910 without stand 1.710 with stand	910 without stand 1.710 with stand	910 without stand 1.710 with stand	910 without stand 1.710 with stand
Weight	approx. kg	400–1.050 (depending on version)	400–1.050 (depending on version)	400–1.050 (depending on version)	400–1.050 (depending on version)



TSM		TSM 130 universal transverse doctor kit		TSM 130 universal transverse doctor kit		TSM 130 universal transverse doctor kit		TSM 130 universal transverse doctor kit	
Basic machine, Item No.		25 65 00		25 65 00		25 65 00		25 65 00	
Machine version						pneumatic/servo		servo/pneumatic	
Printing carriage forward / backward		pneumatic/pneumatic		servo/servo		servo		pneumatic	
Pressure tappet up / down						pneumatic		servo	
Ink distributing unit “transverse doctor blade”		mm	Ø 130 – 1-coloured Ø 140 ¹⁾ – 1-coloured	Ø 130 – 1-coloured Ø 140 ¹⁾ – 1-coloured		Ø 130 – 1-coloured Ø 140 ¹⁾ – 1-coloured		Ø 130 – 1-coloured Ø 140 ¹⁾ – 1-coloured	
Ink residue pick-up system		option		option		option		option	
Single cycle		yes		yes		yes		yes	
Multiple printing		yes		yes		yes		yes	
Piece counter		yes		yes		yes		yes	
Variable speed control		yes		yes		yes		yes	
Cycles / hour ²⁾									
continuous run		200–800		600–1.300		200–800		600–1.200	
single printing (Start/Stop mode)		max.	600	950		600		900	
double printing (Start/Stop mode)			330	540		330		500	
triple printing (Start/Stop mode)			230	380		230		350	
Ink/doctoring cup size		Ø mm	130 / 140 ¹⁾	130 / 140 ¹⁾		130 / 140 ¹⁾		130 / 140 ¹⁾	
Variable doctoring contact pressure		yes		yes		yes		yes	
Cliché size, version “transverse doctor blade”		mm	150 x 730 / 930	150 x 730 / 930		150 x 730 / 930		150 x 730 / 930	
Depth x Length									
Print image size, version “transverse doctor blade”		mm	120 x 340 / 540 / 650 ³⁾	120 x 340 / 540 / 650 ³⁾		120 x 340 / 540 / 650 ³⁾		120 x 340 / 540 / 650 ³⁾	
Depth x Length max.									
Variable pad stroke onto workpiece		mm	20–100	20–100		20–100		20–100	
Variable pad stroke onto cliché		mm	20–160	20–160		20–160		20–160	
Pad installation height, version “transverse doctor blade”		mm	200	200		200		200	
Force of pressure machine (with 6 bar) max.		N	4.500 / 7.300	7.500		7.500		7.500	
Drive		electropneumatic		servo mechanical		electropneumatic		servo mechanical	
						servo mechanical		electropneumatic	
Connected load		kW	1	6		1,5		5	
Power supply (special voltage possible)		V/phase	400V/3/N/PE	400V/3/N/PE		400V/3/N/PE		400V/3/N/PE	
Interface		D-SUB 37-pole		D-SUB 37-pole		D-SUB 37-pole		D-SUB 37-pole	
Power frequency		Hz	50 / 60	50 / 60		50 / 60		50 / 60	
Control		PLC		PLC		PLC		PLC	
Control voltage		V/DC	24	24		24		24	
Prefuse		A	16	32		16		32	
Pneumatic supply fine filter 5 µm		bar	6	6		6		6	
Air consumption		NL	30 / 41	only for ink residue pick-up system		24 / 35		6	
Width		mm	1.440	1.440		1.440		1.440	
Depth		mm	1.560	1.560		1.560		1.560	
Height		mm	1.140 without stand 1.920 with stand	1.140 without stand 1.920 with stand		1.140 without stand 1.920 with stand		1.140 without stand 1.920 with stand	
Weight		approx. kg	1.000	1.060		1.020		1.040	

¹⁾ option ink/doctoring cup Ø 140 mm

²⁾ for print image legth 540 mm

³⁾ option print image length 650 mm for park position right



Rotary pad printing machine		RTI COMPACT II E
Item No. Stand-alone		01 00 73
Ink residue pick-up system		integrated
Single cycle		yes
Multiple printing		yes
Continuous run		–
Piece counter		yes
Variable speed control		yes
Printing speed	m/min	40
Registration adjustment axial	mm +/-	2
Registration adjustment radial	Degree +/-	optional
Adjustment travel vertical	mm	100
Variable doctoring contact pressure		yes
Cliché cylinder Ø x width	mm	100 x 100
Print image size max. depth x length	mm	90 x 290
Pad roller Ø width	mm	201
Cliché shaft Ø	mm	25
Pad shaft Ø	mm	20
Drive		electromechanical
Connected load	kW	1,0
Power supply	V/phase	230V/1/N/PE
Power frequency	Hz	50–60
Control		PLC
Control voltage	V	24
Prefuse	A	16
Pneumatic supply fine filter 5 µm	bar	6
Air consumption / cycle	NL	0,5–1
Width	mm	1.200
Depth	mm	880
Height	mm	1.735
Weight	approx. kg	340

Rotary printing unit	H-RTI 2000	V-RTI 3000	H-RTI 21-150 - 25/40	RTI 21-150 - 40/40
Item No.	01 04 00	01 04 22	01 04 40 / 01 04 41	01 04 42 / 01 04 43
Ink residue pick-up system	optional	optional	series	series
Single cycle	–	–	–	–
Multiple printing	–	–	–	–
Continuous run	yes	yes	yes	yes
Piece counter	–	–	–	–
Variable speed control	external	external	external	external
Printing speed	m/min	40	40	40
Registration adjustment axial	mm +/-	2	5	2
Registration adjustment radial	Degree +/-	3	4	4
Adjustment travel vertical	mm	150	10	150
Variable doctoring contact pressure	yes	yes	yes	yes
Cliché cylinder Ø x width	mm	100 x 100	90–100 x 100	100 x 100/150
Print image size max. depth x length	mm	80 x 314	80 x 314	80/130 x 314
Pad roller Ø	mm	201	201	201
Cliché shaft diameter Ø	mm	25	25	25
Pad shaft diameter Ø	mm	40	25	40
Drive	w/o its own drive	w/o its own drive*	w/o its own drive	w/o its own drive
Power supply	V/phase	–	400V/3/PE (ink supply)	–
Drive via tooth wheel, pad shaft	optional	–	optional	optional
Motor drive	optional	–	optional	optional
Chain drive	optional	–	optional	optional
Power frequency	Hz	50–60	50–60 (ink supply)	50–60
Control		external	external	external
Control voltage	V	external	external	external
Prefuse	A	external	external	external
Pneumatic supply fine filter 5 µm	bar	6	6	6
Air consumption / cycle	NL	0,1	0,1	0,1
Width	mm	730	416	720
Depth	mm	540	552	540
Height	mm	700	490	700
Weight	approx. kg	85	42	118

* optional drive possibilities

HERMETIC		HERMETIC 6-12 universal	HERMETIC 9-12 universal	HERMETIC 13-12 universal	HERMETIC 150
Item No.	Bench model	01 00 46	01 06 00	01 06 01	01 00 41* / 01 00 42**
Ink residue pick-up system		optional	optional	optional	optional
Single cycle		yes	yes	yes	yes
Multiple printing		yes	yes	yes	yes
Continuous run		yes	yes	yes	yes
Piece counter		yes	yes	yes	yes
Variable speed control		yes	yes	yes	yes
Cycles / hour		max. 1.300–4.100	1.100–3.600	1.000–2.700	750–2.100
Ink/doctoring cup size		Ø mm 60	90	130	150
Variable doctoring contact pressure		yes	yes	yes	no
Cliché size		mm 70 x 140	100 x 215	150 x 300	160 x 350
Print image size max.		Ø mm 55	85	120	140
Variable pad stroke onto workpiece		mm 80–110	110–150	120–160	160–190
Pad stroke onto cliché		mm 32	40	45	50
Pad installation height max.		mm 76	92	110	136
Force of pressure		N 300	1.100	1.800	2.500
Drive		electromechanical	electromechanical	electromechanical	electromechanical
Connected load		kW 0,5	1,0	1,0	1,0
Power supply		V/phase 230V/1/N/PE	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	D-SUB 37-pole
Power frequency		Hz 50–60	50–60	50–60	50–60
Control		PLC	PLC	PLC	PLC
Control voltage		V/DC 24	24	24	24
Prefuse		A 16	16	16	16
Pneumatic supply fine filter 5 µm		bar –	–	–	–
Air consumption / cycle		NL –	–	–	–
Width		mm 323 / 400**	360 / 600**	393	410* / 490 **
Depth		mm 811 / 840**	1.000 / 1.000**	1.175	1.066* / 1.073 **
Height		mm 750 / 1.530**	870 / 1.720**	1.076	895* / 1.770 **
Weight		approx. kg 70 / 92**	155 / 201**	266	390* / 510 **

* integrated model ** bench model

V-DUO		V-60/60 DUO	V-90/90 DUO	V-130/130 DUO	V-140/140 DUO
Item No.	Bench / Floor standing model	01 03 51 / 01 00 51	01 03 52 / 01 00 52	01 03 54 / 01 00 54	– / 01 00 53
Ink residue pick-up system		integrated	integrated	integrated	integrated
Single cycle		yes	yes	yes	yes
Multiple printing		yes	yes	yes	yes
Continuous run		yes	yes	yes	yes
Piece counter		yes	yes	yes	yes
Variable speed control		yes	yes	yes	yes
Cycles / hour		max. 1.300	1.200	800	800
Ink/doctoring cup size		Ø mm 60	90	130	130
Variable doctoring contact pressure		yes	yes	yes	yes
Cliché size		mm 2x 70 x 140	2x 100 x 215	2x 150 x 300	2x 150 x 300
Print image size max.		Ø mm 55	85	120	130
Variable pad stroke onto workpiece		mm 10–160 optional: 0–200	10–160 optional: 0–200	10–160 optional: 10–200	10–160 optional: 10–200
Variable pad stroke onto cliché		mm 10–130	10–130	10–100	10–100
Pad installation height max.		mm 95	95	152	152
Force of pressure		N 1.170	1.170	2.500	2.500
Drive		electropneumatic	electropneumatic	electropneumatic	electropneumatic
Connected load		kW 0,5	0,5	0,5	0,5
Power supply		V/phase 230V/1/N/PE	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	D-SUB 37-pole
Power frequency		Hz 50–60	50–60	50–60	50–60
Control		PLC	PLC	PLC	PLC
Control voltage		V/DC 24	24	24	24
Prefuse		A 16	16	16	16
Pneumatic supply fine filter 5 µm		bar 6	6	6	6
Air consumption / cycle		NL 12	12	26	26
Width		mm 733	733	850	850
Depth		mm 820	820	1.190	1.190
Height		mm 710 / 1.550	710 / 1.550	890 / 1.750	1.750
Weight		approx. kg 160 / 280	160 / 280	400 / 550	555



RAPID		RAPID 2000 / 60-3	RAPID 2000 / 90	RAPID 2000 / 130	RAPID 3000 / 60-1
Item No. Integrated model		01 00 10	01 00 13	01 00 12	01 06 20 ¹⁾ / 01 06 21
Ink residue pick-up system		optional	optional	optional	–
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.	1.500–6.000	1.300–5.400	1.700–4.500	8.000
Ink/doctoring cup size	Ø mm	60	90	130 (option: 140)	60
Variable doctoring contact pressure		yes	yes	yes	yes
Cliché size	mm	70 x 140	100 x 215	150 x 300	70 x 140
Print image size max.	Ø mm	55	85	120 (option: 130)	55
Pad stroke onto workpiece	mm	84	123	160	84
Pad stroke onto cliché	mm	24	38	45	24
Pad installation height max.	mm	63	90	110	63
Force of pressure	N	500	1.500	2.000	500
Drive		electromechanical	electromechanical	electromechanical	externally driven
Connected load	kW	0,5	1,0	1,0	–
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	–
Power frequency	Hz	50–60	50–60	50–60	–
Control		PLC	PLC	PLC	–
Control voltage	V/DC	24	24	24	–
Prefuse	A	16	16	16	–
Pneumatic supply fine filter 5 µm	bar	–	–	–	–
Air consumption / cycle	NL	–	–	–	–
Width	mm	261	327	394	339
Depth	mm	550	706	940	357
Height	mm	595	675	825	381
Weight	approx. kg	60	120	210	32

¹⁾ without central lubrication

ENCODER		ENCODER 40 EP & EP/1	ENCODER 50 EP & EP/1
Item No. Integrated model		01 00 57 01 00 58 ¹⁾	01 00 36 01 00 56 ¹⁾
Ink residue pick-up system		optional	optional
Single cycle		yes	yes
Multiple printing		yes	yes
Continuous run		yes	yes
Piece counter		yes	yes
Variable speed control		yes	yes
Cycles / hour	max.	400–3.500	400–2.400
Ink/doctoring cup size	Ø mm	42	60
Variable doctoring contact pressure		yes	yes
Cliché size	mm	60 x 105	70 x 140
Print image size max.	Ø mm	37	55
Variable pad stroke onto workpiece *special depth	mm	50–100 *125–300	50–100 *125–300
Pad stroke onto cliché	mm	20–40	–
Pad installation height max.	mm	50	60
Force of pressure	N	270	450
Drive		electropneumatic	electropneumatic
Connected load	kW	0,5	0,5
Power supply	V/phase	230V/1/N/PE	230V/1/N/PE
Interface		–	–
Power frequency	Hz	50–60	50–60
Control		PLC	PLC
Control voltage	V/DC	24	24
Prefuse	A	16	16
Pneumatic supply fine filter 5 µm	bar	6	6
Air consumption / cycle	NL	1,5	3,9
Width	mm	153	173
Depth	mm	325	380
Height	mm	337	383
Weight	approx. kg	23	29

¹⁾ EP/1 = Excess pressure regulation in the ink/doctoring cup with control unit – allows a 360° installation positioning

Modular Systems		MODUL 1000	MODUL 2010	LINEAR MODUL 2010 ²⁾	SPEED MODUL
Item No.		02 08 00 / 02 08 01 02 08 02 / 02 08 03	02 07 30	2 colours: 25 61 10 4 colours: 25 61 11 6 colours: 25 61 12	01 05 02
Compact frame construction		aluminium profile	stainless steel 1.4301	welded steel construction	welded steel construction
Safety systems		two-hand operation light curtain lateral profile frame	tempered safety glass (ESG) – sound insulation, antistatic effect, hygiene	light curtain	safety enclosure
Transfer systems		rotary index table TC 150 or TC 220	rotary index table TC 220T Ø 900 mm, max. 12 workpiece carriers	high speed servo axis	–
Machine series can be combined with		HERMETIC -Series SEALED INK CUP E -Series V-DUO -Series CONCENTRA -Series RTI -Series Laser system component	HERMETIC-Series SEALED INK CUP E -Series RTI -Series RAPID -Series Laser system component	3 Basic Units 2/4/6 printing stations Programme Unit Vario Unit, Pad Unit Laser Unit Cliché Unit 2010	SPEED 40-2 -Series Laser system component
Printing component size approx.		depending on partition of index table	depending on partition of index table	200 x 600 mm, size acc. to prior agreement	Ø 70 mm
Printing components – target group		semi-automatic machine for manually fed parts	pharmaceutical industry	toy industry automotive industry	printing on top ends of closure caps: pre-rollerburnished, unprinted blanks, aluminium, plastics; electrical industry,small parts
Print image size		depending on printing machine	depending on printing machine	free choice	Ø 38 mm
Number of colours (number of motifs)		1 colour with V-DUO or 6 colours with CONCENTRA	1–4	bis 6	1–4
Decoration / marking technology		pad printing and/or laser marking	pad printing and/or laser marking	pad printing and/or laser marking	pad printing and/or laser marking
Number of machine cycles / hour		up to manual feeding, approx. 1.000 cycles depending on operator	depending on pad printing machine and automatisisation degree	individual, depending on number of Vario Unit and printing processes	8.000
Parts output		see number of machine cycles	see number of machine cycles	variable, e.g. with 6 colours approx. 250 cycles/h	up to 16.000
Drive pad stroke / cliché movement		depending on pad printing machine			electromechanical
Drive, transport system		electromechanical	electromechanical	linear motor	electromechanical
Connected load		kW depending on configuration	depending on configuration	10	depending on configuration
Power supply		V/phase 230V/1/N/PE	400V/3/N/PE	400V/3/N/PE	400V/3/N/PE
Interface		D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole
Power frequency		Hz 50–60	50–60	50–60	50–60
Control		PLC	PLC	PLC	PLC
Number of programme counters		1–10	1–10	1–10	1–10
Control voltage		V/DC 24	24	24	24
Prefuse		A 16	25	32	32
Pneumatic supply fine filter 5 µm		bar 6–8	6–8	6–8	6–8
Air consumption/cycle		NL 0–60	0–60	38	0–6
Width		mm variable	variable	4.060	1.800 ¹⁾
Depth		mm variable	variable	2.000	1.800 ¹⁾
Height		mm variable	variable	2.150	2.260 ¹⁾
Weight		approx. kg variable	variable	variable	1.500

¹⁾ = without feeding and discharge ²⁾ = basic machine – client-specific options possible

ENTRANCE 90		
Item No.		01 00 85
Ink residue pick-up system		non
Single cycle		yes
Multiple printing		yes
Continuous run		yes
Piece counter		yes
Variable speed control		yes
Cycles / hour	max.	1.700
Ink cup/doctoring cup size	ø mm	90
Variable doctoring contact pressure		no
Cliché size	mm	100 x 215
Print image size max.	ø mm	85
Variable pad stroke onto workpiece		mm 110
Pad stroke onto cliché		mm 50
Pad installation height max.		mm 112
Force of pressure		N 1.000
Drive		electromechanical
Connected load		kW 0,3
Power supply		V/phase 230V/1/N/PE
Interface		–
Power frequency		Hz 50–60
Control		MC
Control voltage		V/DC 24
Pre-fuse		A 16
Pneumatic supply fine filter 5 µm		bar –
Air consumpton / cycle		NL –
Width		mm 493
Depth		mm 688
Height		mm 1.592
Weight		approx. kg 155



CONCENTRA		CONCENTRA 60-4	CONCENTRA 60-6	CONCENTRA 90-4	CONCENTRA 90-6	CONCENTRA 130-4	CONCENTRA 130-6	CONCENTRA 140-4	CONCENTRA 140-6	CONCENTRA 210-4	CONCENTRA 210-6
Item No.	Floor standing / Integrated model	01 03 80 / 01 03 82	01 03 87 / 01 03 90	01 03 81 / 01 03 83	01 03 88 / 01 03 91	01 03 85 / 01 03 86	01 03 89 / 01 03 92	01 03 98 / 01 03 96	01 03 99 / 01 03 97	01 03 78 / –	01 03 79 / –
Ink residue pick-up system		integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated
Single cycle		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Multiple printing		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Continuous run		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Piece counter		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Variable speed control		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Cycles / hour 5–6 colours	max.	–	500	–	500	–	400	–	400	–	310
Cycles / hour 3–4 colours	max.	800	550	800	550	480	420	480	420	380	300
Cycles / hour 2 colours ¹⁾	max.	900	690	900	690	520	500	520	500	420	330
Cycles / hour 1 colour ¹⁾	max.	1.620	1.500	1.680	1.500	1.050	1.150	1.050	1.150	990	990
Ink/doctoring cup size	Ø mm	60	60	90	90	130	130	140	140	210	210
Number of colours		4	6	4	6	4	6	4	6	4	6
Variable doctoring contact pressure		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Cliché size	mm	70 x 140	70 x 140	100 x 215	100 x 215	150 x 300	150 x 300	150 x 300	150 x 300	220 x 500	220 x 500
Print image size max.	Ø mm	55	55	85	85	120 / 130 ²⁾	120 / 130 ²⁾	130	130	200	200
Variable pad stroke onto workpiece	mm	10–140	10–140	10–140	10–140	10–180	10–180	10–180	10–180	10–230	10–230
Variable pad stroke onto cliché	mm	10–100	10–100	10–100	10–100	10–100	10–100	10–100	10–100	10–120	10–120
Pad installation height max.	mm	100	100	100	100	110	110	115	115	190	190
Force of pressure	N	750	750	1.150	1.150	2.900	2.900	2.900	2.900	4.000	4.000
Drive rotary table pad stroke		electromechanical/ electropneumatic	electromechanical/ electropneumatic	electromechanical/ electropneumatic	electromechanical/ electropneumatic	electromechanical/ electropneumatic	electromechanical/ electropneumatic	electromechanical/ electropneumatic	electromechanical/ electropneumatic	electromechanical/ electropneumatic	electromechanical/ electropneumatic
Connected load	kW	1,2	1,2	1,2	1,2	1,2	2	1,2	2	10	10
Power supply	V/phase	230V/1/N/PE	230V/1/N/PE	230V/1/N/PE	230V/1/N/PE	230V/1/N/PE	230V/1/N/PE	230V/1/N/PE	230V/1/N/PE	400V/3/N/PE	400V/3/N/PE
Interface		D-SUB 25-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 25-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole
Power frequency	Hz	50–60	50–60	50–60	50–60	50–60	50–60	50–60	50–60	50–60	50–60
Control		PLC	PLC	PLC	PLC	PLC	PLC	PLC	PLC	PLC	PLC
Programme memories		10	10	10	10	10	10	10	10	10 /1000 ³⁾	10 /1000 ³⁾
Control voltage	V/DC	24	24	24	24	24	24	24	24	24	24
Prefuse	A	16	16	16	16	16	16	16	16	32	32
Pneumatic supply fine filter 5 µm	bar	6	6	6	6	6	6	6	6	6	6
Air consumpton / cycle	NL	32	48	36	54	130	195	130	195	6	6
Width	mm	1.232 / 1.123	1.329 / 1.202	1.232 / 1.123	1.329 / 1.202	1.692 / 1.592	1.692 / 1.592	1.692 / 1.592	1.690 / 1.592	2.240	2.240
Depth	mm	1.060 / 1.034	1.150 / 1.125	1.060 / 1.034	1.150 / 1.125	1.510	1.510	1.510	1.510	2.310	2.310
Height	mm	1.715 / 1.050	1.715 / 1.050	1.715 / 1.050	1.715 / 1.050	2.015 / 1.350	2.015 / 1.350	2.015 / 1.350	2.015 / 1.350	2.410	2.410
Weight	approx. kg	832 / 690	950 / 820	850 / 710	930 / 775	1.680 / 1.500	1.920 / 1.770	1.700 / 1.500	1.930 / 1.700	3.700 ³⁾ / 3.600	3.800 ³⁾ / 3.700

¹⁾ = without ink residue pick-up system station

¹⁾ = without ink residue pick-up system station

²⁾ = only with ink/doctoring cup Ø 140 mm

³⁾ = with X-Y table



SEALED INK CUP E		SEALED INK CUP 60 E	SEALED INK CUP 90 E	SEALED INK CUP 130 E
Item No.	Floor standing / integrated model	01 03 62 / 01 03 65	01 03 63 / 01 03 66	01 03 64 / 01 03 67
Ink residue pick-up system		optional	optional	optional
Single cycle		yes	yes	yes
Multiple printing 2/3-fold		yes	yes	yes
Continuous run		yes	yes	yes
Piece counter		yes	yes	yes
Variable speed control		yes	yes	yes
Cycles / hour	max.	1.500	1.400	1.250
Ink/doctoring cup size	Ø mm	60	90	130
Variable doctoring contact pressure		no	no	no
Cliché size	mm	70 x 140	100 x 215	150 x 300
Print image size max.	Ø mm	55	85	120
Variable pad stroke onto workpiece		15–80	30–100	25–120
Variable pad stroke onto cliché		15–50	30–50	25–80
Pad installation height max.		60	95	115
Force of pressure		N	450	750
Drive		electropneumatic	electropneumatic	electropneumatic
Connected load		kW	0,2	0,2
Power supply		V/phase	230V/1/N/PE	230V/1/N/PE
Interface			D-SUB 37-pole	D-SUB 37-pole
Power frequency		Hz	50–60	50–60
Control			PLC	PLC
Control voltage		V/DC	24	24
Prefuse		A	16	16
Pneumatic supply fine filter 40 µm		bar	6	6
Air consumption / cycle		NL	2	2,7
Width		mm	342 / 270	372 / 300
Depth		mm	665	810
Height		mm	480 / 390	640 / 510
Weight		approx. kg	42 / 38	76 / 68
				134 / 120

HYBRID		HYBRID 90-2	HYBRID 90-2 INTAGLIO	HYBRID 90-2 iTAMPOPRINT	Cliché engraving	with integrated laser source SK 61
Item No.	Floor standing / Integrated model	01 00 95	01 00 97	01 00 96	Laser source	Pulsed Yb:YAG fiber laser, 1064 nm, air-cooled
Ink residue pick-up system		integrated	integrated	integrated	Frequency	20–80 kHz
Single cycle		yes	yes	yes	Output power	10 W
Multiple printing		yes	yes	yes	Ambient temperature	+5°C up to +35°C, relative air humidity < 85%
Continuous run		yes	yes	yes	Deflection unit	Galvo head, standard with aperture Ø 7 mm
Piece counter		yes	yes	yes	Optics	Focal length f-160 mm
Variable speed control		yes	yes	yes	Marking area approx.	120 mm x 120 mm
Cycles / hour	max.	1.200	1.200	1.200	Software	Graphical, Windows® oriented user interface, no editor, i.e. toolbar and context menu, incl. barcode module, code 39, 2 from 5 IL, 128 A-B-C, DataMatrix, standard data import: .ai, .plt, Vektor format, variable text elements, i.e. date and time, series no., external texts, integrated data-base logging. Option: external control via TCP/IP protocol or RS 232. Language version: Unicode compatible, German, English, French, Spanish, Portuguese, Italian, Turkish, Japanese, Chinese
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 colours		2	2	2	Supply unit	19" component design with coded plug-in connection, front-end PC, WIN XP, 17" TFT screen and keyboard, standard interface 8-Bit selection 24 V
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	1.170	1.170	1.170		
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 + iTAMPOPRINT		
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	1.034 / 1.962 ¹⁾	1.034 / 1.962 ¹⁾	1.034 / 1.962 ¹⁾		
Depth	mm	1.215 / 2.650 ¹⁾	1.215 / 2.650 ¹⁾	1.215 / 2.650 ¹⁾		
Height	mm	1.925 / 1.085	1.925 / 1.085	1.925 / 1.085		
Weight	approx. kg	530 / 420	530 / 420	530 / 420		

¹⁾ = operating range



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