

Pad Printing  
Laser Systems  
Inkjet Systems  
Automations



## LEADS

### Consumables



LASER MARKING PAD PRINTING CONSUMABLES SERVICE

## Consumables Product Range

TAMPOPRINT®

# Worldwide



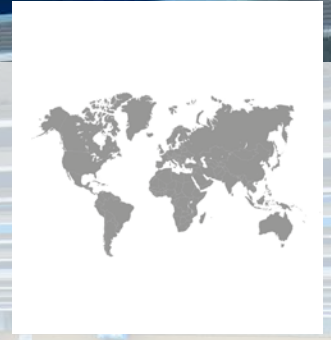
**TAMPOPRINT® GmbH**  
Headquarters  
Germany



**TAMPOPRINT® Int'l. Corp.**  
Subsidiary  
USA



**TAMPOPRINT® IBERIA S.A.U.**  
Subsidiary  
Spain



**Sales Network**  
Europe, America, Africa,  
Asia, Australia

Industrial product marking and labeling using pad printing and lasers - that is our profession and our passion. TAMPOPRINT develops a perfectly coordinated system of machines and processes for numerous industries. Our goal: to make pad printing and laser processes better and more effective.

As a typical "hidden champion" from Baden-Württemberg, TAMPOPRINT is unbeaten when it comes to industrial pad printing and laser marking technologies that are in demand internationally. We have a special level of expertise in process and application technology. This enables us to offer coherent concepts and developments for every requirement of our customers from a single source.

technologies for your future





Pad printing machines

# Summary



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Printing pads



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Accessories



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Service





Everything from a single source

## PROCESS OWNERSHIP

Consulting

Application technology

Development

Standard machines

Special machines

Consumables

Service

Accessories

Service

Retrofit





ORIGINAL  
**TAMPOPRINT**  
Germany



**SIEMENS** SIMATIC HMI  
TOUCH  
  
Stop Stop All

**V-60/90 DUO**  
Harmatic System  
Made in Germany

**PRINT-LASER-AUTOMATION  
MODULE ONE S**  
Pad printing and laser engraving

We take care of the entire process

# Our Mission

## Your Partner for Laser Marking and Pad Printing

As a company that has been supporting customer applications worldwide for decades through in-house developments in the field of pad printing and lasers, the definition of the company mission with "100% process ownership" is almost logical. We see ourselves as a "one-stop shop" for all customers who need a partner who takes care of their needs right from the start. Our strength here lies in the

turn-key solution, from the entry-level machine in the manual processing sector to the fully automated high-tech solution. We accompany our customers throughout their product life cycle and beyond. Driven by our mission, we not only take care of the machine, but also offer our customers all consumables from our own production sites as well as from selected suppliers.



## Overview

# Industries



**WHITE GOODS**  
Washing machine panel  
Printed with TSM, ink type U-HF



**HYGIENE AND COSMETICS**  
Mascara  
Printed with MODULE ONE M, ink type U-HF



**MEDICAL TECHNOLOGY**  
Valve cover for masks  
Printed with HERMETIC, ink type U-HF



**MEDICAL TECHNOLOGY**  
BFS Container  
Printed with customized machine, ink type P-AF



**MEDICAL TECHNOLOGY**  
Counter rings  
Printed with MAP, ink type U-HF





**BEVERAGES**  
Crown corks  
Printed with pad printing automation



**EXCLUSIVE PRODUCTS**  
Clock face  
Printed with customized machine, ink type N



**STATIONERY**  
Highlighter  
Printed with automation, ink type P-AF



**BEVERAGES**  
Plastic closure  
Printed with ROTOPRINT, ink type RDF-HF



**BEVERAGES**  
LongCaps  
Printed with customized machine, ink type RDF-HF

# Industries



**AUTOMOTIVE**  
Engine cover  
Printed with customized machine, ink type S



**TOOLS**  
Screwdriver bits  
Printed with customized machine, ink type F



**AUTOMOTIVE**  
Spotlight  
Printed with TSM, ink type S



**OPTICS AND MEASUREMENT TECHNIQUE**  
Binoculars  
Printed with HERMETIC, ink type N



**SPORT**  
Golf ball  
Printed with HERMETIC, ink type LOGO



**ELECTRONICS**  
LED lamp  
Printed with ENCODER, ink type N



**SANITARY**  
Gas and water fittings  
Printed with ENCODER, ink type TP-CD



**HOME INTERIOR**  
Christmas tree ball  
Printed with MAP, ink type B/GL



**BABY PRODUCTS**  
Baby bottles  
Printed with pad printing automation, ink type U-HF



**TOYS**  
Play bricks  
Printed with pad printing automation, ink type CFU



# PRECISION ALSO UNDER PRESSURE



**TAMPOPRINT® PRINTING PADS**  
Varied assortment  
According to Original  
TAMPOPRINT® recipe

Our consumables – For optimal printing results

# Original TAMPOPRINT® Printing Pads

## According to Original TAMPOPRINT® recipe

In our immense standard printing pad portfolio, there is a suitable solution for almost every application. If no suitable pad shape is available, we will create a printing pad perfectly matched to your printed material.

## Advantages

- Wide range of standard and rotary printing pads
- Production of customized special printing pads
- Advice on the choice of printing pads
- Can be used universally even with third-party systems
- In-house production and constant quality control
- Silicone material perfectly matched to the TAMPOPRINT® overall process

TAMPOPRINT® Printing Pads - Data Base:  
[www.tampoprint.com/en-en/pad-database/](http://www.tampoprint.com/en-en/pad-database/)

## Standard Printing Pads

Ready for use in many applications



## Printing Pads

Silicone material



## Pad roller

RP roller for the rotary pad printing  
available in different Shore hardnesses



## Pad hardness (according to DIN 53505 as Shore-A)

The hardness of the TAMPOPRINT® printing pads is determined by the color coding of the base plate







## Selection guide

# Printing Pad

### Your printing pad selection

The material properties of silicone rubber are excellently suited for the production of printing pads. The special release effect, namely the pick-up of the pad printing ink from the pad printing cliché and the subsequent transfer to the printed part, is due to the exceptionally contrary material

properties of silicone rubber. Particular mention should be made of the surface's release effect against inorganic and organic materials, as well as its permanent elasticity, high reproduction accuracy and chemical resistance to weak acids and alkalis.

Silicone material*	04 light blue silicone	03 red-brown silicone	02 white silicone	01 yellow silicone
Antistatic	optimal, 100 times less electrostatic charge than with silicone material 03	very good	good	good
Mech. resilience	very good	very good	good	good
Main application	universal, suitable also for UV pad printing inks	universal	opt. industry, easy to clean, fine print images	preferred in special applications
Swelling behavior	good	good	very good	good
Shelf life ( more than this = decreasing hardness)	over 1 year	over 1 year	max. 3 months	max. 3 months
Hardness/Shore-A	1, 3, 6, 12, 18	1, 3, 6, 12, 18	6, 12, 18	1, 3, 6, 12

The hardness of the pad is specified as Shore-A according to DIN 53505. Usually, pads between 0 and 18 Shore-A are offered. In case of hardnesses above 18 Shore-A, these are

considered special pads or are used in rotary pad printing as printing pad rollers (55 Shore-A is common here). All our pads are available with wood or aluminum base plates.

Shore-A*	Hardness	Usage
1 Shore-A	soft	sensitive, easily breakable surfaces
3 Shore-A	soft	strongly curved surfaces
6 Shore-A (standard)	medium	universal application areas
12 Shore-A and 18 Shore-A	hard	textured surfaces, flat printed parts, extremely high printing speeds

TAMPOPRINT® Printing Pads Data Base: [www.tampoprint.com/en-en/pad-database/](http://www.tampoprint.com/en-en/pad-database/)

\*Please note that the information on this page are guidelines. A concrete recommendation depends on the application. An incoming inspection (test print) must always be carried out. We will be pleased to advise you.

#### PAD PRINTING CLICHÉS

From unprocessed to ready-to-print clichés  
Wide range of cliché types and sizes.

# FOR THOSE WITH HIGH DEMANDS

Our consumables – For optimal printing results

# Original TAMPOPRINT®

## Pad Printing Clichés

### Self-developed cliché material

Thanks to our many years of experience and process expertise, we know how essential it is for all process components to be in perfect harmony in order to achieve ideal print results. That's why we produce our cliché material ourselves. Through constant optimization and further development of the cliché material, we are able to offer a cliché material that is optimally matched to the pad printing process for every application.

### Advantages

- Large selection of pad printing clichés
- Cliché cylinders for rotary pad printing
- „Do-it-yourself“ pad printing clichés
- Pad printing clichés for third-party products
- In-house prepress department
- Ready-to-print pad printing clichés
- In-house production and continuous further development of the cliché material

### Cliché plates

Ceramic cliché plate, steel cliché plate



### Cliché production

Self-developed cliché raw material for ideal printing results



### Thin cliché plates (for laser engraving and UV exposure)

Aloxid-special, Magnet-Aloxid, record-special, Magnet-screen and Magnet-Eco clichés

### Cliché cylinders and cliché bands

Ceramic and CP cliché cylinders, microflex cliché band HYBRID and INTAGLIO laser cliché band HYBRID





technologies for

# Pad Printing Cliché

## Pad printing clichés for every application

In our cliché studio, we have been working on new cliché materials and developing suitable imaging processes for decades. This means that today we can produce the optimal pad printing cliché for every application. Our years of experience enable us to address the special features of pad printing and use them for the best result.

## Production output of pad printing clichés

The production output corresponds to the service life of a pad printing cliché, which is influenced by various factors. The handling of the pad printing cliché and the entire system play a decisive role. Thanks to the perfect coordination and development of the TAMPOPRINT pad printing components, they have a significantly longer service life compared to competitor products.

Pad printing cliché type	Max. number of printed parts	Production	Do-It-Yourself	Motif
Ceramic cliché	3 Mio.	Laser	yes	Line
Steel cliché	1 Mio.	Etching	–	Line, screen
Steel cliché SST	1 Mio.	Etching	–	Line, screen
Aloxid-special cliché	80.000	Laser	yes	Line
Aloxid-special cliché -R <sup>1)</sup>	80.000	Laser	yes	Line
Magnet-Aloxid cliché	80.000	Laser	yes	Line
Magnet-Aloxid cliché -R <sup>1)</sup>	80.000	Laser	yes	Line
record-special cliché	80.000	Etching	yes	Line, screen
Magnet-screen cliché	20.000	Alcohol	yes	Line, screen
Magnet-Eco cliché	6.000	Water	yes	Line, screen
microflex-cliché band HYBRID	10.000	Laser	yes	Line
Cliché band CTP	10.000	Laser	yes	Line
CP cliché cylinder	35 Mio. <sup>2)</sup>	Laser	–	Line, screen
Ceramic cylinder	350 Mio. <sup>2)</sup>	Laser	–	Line, screen

1) -R = Thin cliché with reduced coating thickness

2) with 2 lanes and 8 motifs/lane

The stated production output corresponds to the values determined by TAMPOPRINT, taking into account a wide range of influencing factors.

# COLORFUL, DURABLE, BRILLIANT

**PAD PRINTING INK**  
Standard or special inks  
We will mix the suitable ink shade for you.

**INK-/DOCTORING CUP 90 NE**  
With unique ventilation system  
Significantly reduced viscosity increase, higher  
mechanical dimensional stability, practical handling.



Our consumables – For optimal printing results

# Pad Printing Ink

## Pad printing inks for every application

TAMPOPRINT develops innovative pad printing inks in cooperation with well-known manufacturers. Our ink types are perfectly matched to pad printing and meet our customers' requirements for halogen- and cyclohexanone-free inks.

Our pad printing ink portfolio includes 12 basic inks for mixing special ink shades as well as 23 premixed standard inks. European ink shades for screened 4-color printing (CMYK), gold and silver are also included. In addition, we offer special ready-to-print inks with optimally defined solvents for rotary pad printing.

## Advantages

- Large selection of ink series
- Ink series developed specifically for rotary pad printing
- Production of customized special ink shades
- Carrying out of test prints
- Ink type recommendations
- Inks comply with European requirements
- Coordinated auxiliaries available
- Depending on ink series: halogen-free, cyclohexanone-free, phthalate-free, etc.



## Pad printing inks

Standard ink types/shades and auxiliaries

(For example thinner, hardener, retarder and many more)



Technologies for

# Pad Printing Ink

## Your pad printing ink selection

Which ink type is the right one is based on various influencing factors. The opacity of the ink types and ink shades depends on the surface to be printed as well as the engraving depth, cliché screening and the number of prints (single or

double/multiple printing). The ink consistency must also be adjusted to the correct viscosity with the appropriate thinner (solvent), depending on the print image. You will find the auxiliaries perfectly matched to our pad printing inks in our portfolio.

Industry	Ink type
Medical technology	U-HF
Beverages	RDF-HF, P-AF
Automotive interior / exterior	N, B, S
Sports	LOGO, ACP, GU-N
Hygiene and cosmetics	U-HF, CFU
Sanitary	B/GL, S
Stationery	CFU, P-AF
Baby products	U-HF

Industry	Ink type
Toys	P-AF, CFU, U-HF
Tools	B, B/GL, TP-CD, G-UN
Optics and measuring technique	S, B/GL
Electronics	CFU, P-AF, silicone-free version possible
White goods	CFU, U-HF
Exclusive products	N
Home Interior	CFU, P-AF

Please note that the specifications are guidelines. A concrete recommendation depends on the application and the material. An incoming inspection (test print) must always be carried out. We will be pleased to advise you.





# DURABLE AND SHARP

## INK/DOCTORING CUPS

Our variety of ink/doctoring cup designs offers a wide choice for any application.

Our consumables – For optimal printing results

# Original TAMPOPRINT®

## Ink/Doctoring Cups

### Ink/doctoring cups for every application

We also rely on our process expertise when it comes to consumables! We have worked for decades on optimizing the closed system and can now offer the ink/doctoring cup best suited to the application. Our range includes a wide variety of designs. Whether with replaceable doctor rings, sophisticated ventilation concepts or for multicolor print images.

### Advantages

- Available in various material designs
- Available for all commonly used system sizes
- Ink/doctoring cups for multicolor print images
- Replacement and mechanical relapping of doctoring rings
- Perfectly matched to the overall TAMPOPRINT® process

### Ink/doctoring cups Ø 60 NE and Ø 90 NE

With ventilation concept for more stability of the viscosity



### Ink/doctoring cups, 1 color

Versions in plastic, aluminum, stainless steel

# COMPLETE SUPPORT

## ACCESSORIES

Our accessories are perfectly designed for the interaction of all TAMPOPRINT components in the pad printing process.





Our consumables – For optimal printing results

# Original TAMPOPRINT® Accessories

## Pad printing accessories for optimal printing results

In addition to machines and consumables, we also supply the appropriate process accessories. Thanks to our many years of experience and process expertise, we know how essential it is for all process components to work in perfect harmony to achieve ideal print results. These useful auxiliaries accompany the process, facilitate your work and you achieve high-quality print results.

## Advantages

- Fast, effective and clean work
- Perfectly matched to the pad printing process
- For every pad printing system
- For optimal printing results
- Large and versatile selection for beginners and professionals

Accessories and much more can be found in our TAMPOPRINT® online catalog. Take a look!

## Auxiliaries

Practical auxiliaries for the pad printing process



## Cross support

For easier positioning of parts to be printed



## MONOLIGHT Compact & CLICHE LASER Xi

For the independent production of pad printing clichés



## Service Units

Practical auxiliaries in everyday work

# TAMPOPRINT®



## HERMETIC 90

Consumables: Standard antistatic printing pad,  
Aloxid cliché plate, ink/doctoring cup Ø 90 NE.

## Pad Printing



# MACHINES





**OUR SERVICE**

**100% TAMPOPRINT®**

From the first consultation to the determination of process requirements and finally to maintenance.

## Service

# Everything from a single source

### We support you

As a full-service supplier, we are also there for you after the purchase! We will quickly and reliably find the right solution for your technical concerns. Whether troubleshooting, maintenance or repair, our service technicians are on site for you worldwide or with fast problem solving, thanks to remote maintenance in real time.

### Advantages

- Support on site or remote maintenance in real time
- Reliable supply of spare parts
- Individual service and maintenance concepts
- Production of ready-to-print pad printing clichés
- Comprehensive training offers
- Process optimization

### Service offers

Reliable production due to regular inspection



### Year-round training offers

Basic and industry-specific training



### Technical spare parts and retrofit

Test prints, sampling and production outsourcing

### Working around the world

We are there for you - by remote maintenance or on site





**SERVICE APPLICATION TECHNOLOGY**  
**Well advised down to the last detail**  
All customer-related topics concerning pad  
printing and laser technology come together  
in our application technology department.



Service

# Application Technology

## Well advised down to the last detail

Our application engineering department performs a detailed analysis of the task at hand, determines all process requirements and develops the best possible approach for your marking process. We support you in the introduction phase of your series production, verify your process flow and integrate it into your existing production line.

## Our service

- Support with machine setup
- Process optimization of existing production lines
- Support from pad printing and laser specialists
- Development of marking processes
- Determination of printing/laser machine parameters
- Verification of process sequences
- Integration into automations or production lines
- Validation in accordance with the GMP guidelines
- Validation in accordance with the IATF 16949 guidelines

## Feasibility analysis and sampling

Determination of the optimal interaction of all components



## Small series production and start-up support

Pre-series production by our application engineering department



## Contract manufacturing

Test prints, sampling and production outsourcing

## Validation

Comprehensive support for the required validation processes

Thank you

# For your Interest and your Trust

## **Your Partner for Laser Marking and Pad Printing**

We offer you everything from a single source: from consulting, machines and consumables down to service.

New product designs, product markings and plagiarism protection are possible with pad printing and laser machines. Use our experience for optimized or new production processes. Our core competencies are industrial pad printing and laser marking. Of course, both processes can be combined and integrated into automations using software developed in-house.

Our reliable, uncomplicated and efficient standard pad printing machines for classic pad printing are suitable for numerous tasks in industry. The standardization of our machines has many advantages for our customers: The industrial marking systems deliver optimal printing results, high process stability and offer ease of operation, maintenance friendliness and cost savings.

We offer our customers complex, semi- and fully automated industrial marking systems for large quantities and high cycle rates. These include the modular system MAP (Modular Automation Platform) or the rotary automations ROTOPRINT as well as CLOSURE PRINT COMPACT. Rotary pad printing offers speed combined with frequent motif changes. For applications where production flexibility and user-friendliness are particularly important, our semi-automatic systems of the MODULE-ONE series score highly.

Our industrial marking systems, which combine pad printing and laser technology, enable special solutions in pad printing that are perfectly matched to the requirement. The combined systems offer versatile application possibilities when printing on the smallest areas, combined with individual laser engraving.

Similar decoration processes such as offset printing or screen printing, embossing or etching reach their physical and economic limits in comparison. It is possible for pad printing and also our laser systems to print or mark concave as well as convex and uneven surfaces. Take your time to get to know pad printing and develop your own ideas and concepts.

In recent decades, pad printing has undergone a transformation from the so-called "open" ink/doctoring system to the closed, i.e. "hermetic", ink/doctoring system (invented by TAMPOPRINT and first introduced to the global market in 1983 with the "ENCODER" pad printing machine).

For some years now, there has been another technical revolution, the integrated printing cliché production within the printing process, integrated into the standard pad printing machine.

Today, the "hermetic" system and its use dominate the market. Advantages for the user include:

- No health hazards such as solvent evaporation
- Constant ink consistency
- Cleanliness and time savings during ink changes
- Stable printing process
- No drying of the printing ink during downtimes
- Minimized waste during set-up
- Fast changeover of the pad printing machines

Send us your request!

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All locations are certified ISO 9001:2015

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