hpdSYSTEM – Hot foil coding

We live „Made in Germany"

For more than 45 years we have been developing and manufacturing high quality coding technology products at our site in Veitshöchheim, Germany. Our focus is on first-class quality, outstanding performance and all this in combination with unbeatable reliability. We're on it.

High functionality for everyday use.
Highly reliable coding

For first-class printing results in product coding, the hot foil coding process has been a trusted system for years offering good economic efficiency and operating security.

hpdSYSTEM printers offer both brilliant print results and unbeatable robustness and service life. The Koenig & Bauer Coding portfolio meets your individual coding needs and space require-ments with the right model for any application.

Versatile, irrespective of industry

Foods and sweets

A wide variety of coloured foils are available to perfectly code your packaging / labels with batch number and date. You receive entirely emission-free coding.

Foil packaging

Use the outstanding print quality for perfectly positioned, high contrast coding of your symbols. Markings are applied dry and they are immediately wipe and scratch-resistant. The product can be further processed immediately.

Cosmetics, pharmaceuticals and drugstore items

Handle your coding tasks with a highly precise printed image, and use metallised colour ribbon. Coding merges with your product design.

hpdSYSTEM hot foil coding systems mark perfectly in all industries and on a wide variety of materials and surfaces.

Cables and pipes

Mark cables and pipes at high speeds for clear identification alpha-numeric, with a logo, inverse, and/or a multicolour ring marking.
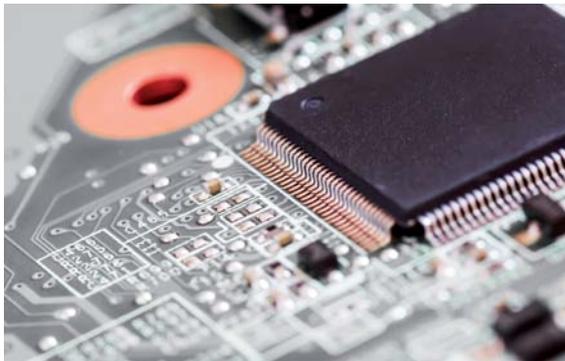
Electronics and components

Mark your electronic components directly in the testing machine. High-contrast coding ensures unique identification in further processing.

Tyres

Apply highly adhesive dots, rings, or custom symbols from a comprehensive range precisely to your tyres during the production process. The marking remains safe, even under heavy loads, far beyond the assembly process.

50 000

printers
installed

worldwide

are evidence of the reliability
of the hpdSYSTEM.

Simple handling and excellent
operational security provide an

uptime > 99.9 %

Your low equipment
investment and inexpensive
colour foils generate a

> 30 %
Savings

In comparison to average market levels.

Are you taking advantage of possible savings?
hpdSYSTEM hot foil printers amortise quickly. Their very long lifetime, low maintenance requirements, absolute reliability, and unbeatably cheap operating materials and equipment investment required make them one of the most economical product coding methods.

Is simple and clean handling important to you?
The easy operation offered by the hpdSYSTEM reduces user errors and provides outstanding uptime. Your work environment remains clean during operations and when changing foils.

In a nutshell.

Are you looking for brilliant colours of your product coding?
An extensive range of foils for the hpdSYSTEM provides colour foils for reliable print quality, high scratch resistance, and light resistance. Upon request, we can also provide you special RAL and Pantone colours with outstanding adhesive properties and great quality.

Should the quality of your coding stand up to increasing production needs?
With up to 1,000 prints / minute, the potential offered by the hpdSYSTEM printer can easily keep up with current packaging and labelling machines. Print types are produced in our in-house engraving manufacture and ensure consistently precise printed images.

Your markings should offer a good adhesion and resistance?
Prints by hpdSYSTEM adhere to almost any material, such as paper, cardboard, plastic, foils, leather, rubber, textiles, etc. They are wipe and abrasion resistant and resistant to environmental influences.

Your production is located in a sensitive environment?
The technology and coloured foils are absolutely harmless and emission-free. That makes them very well suited to sensitive production areas like food and pharmaceuticals. With hpdSYSTEM, your production is well equipped for the workplace regulations and limit values of today and the future.

Technical data
hpdSYSTEM models

	nano	**vario**
Print		
Print surface max.	15 x 30 mm	30 x 50 mm
Speed max.	500 prints / minute	1,000 prints / minute
Print time	50 - 2,000 ms	20 - 2,000 ms
Temperature	50 - 200 °C	50 - 220 °C
Print pressure	373 N at 6 bar	580 N at 6 bar
Foil		
Foil length	122 m	305 m
Foil diameter (max.)	72 mm	100 mm
Foil feed	2 - 15 mm	2 - 30 mm
	infinitely adjustable	infinitely adjustable
Embossing foil	✔	✔
Premium foil	✔	-
Transfer Label	-	-
Available options		
Protective class	IP 65	V: IP 65 / H: IP 54
Sequence control	-	✔
Core scanning	-	✔
Exchange cassette	-	✔
Connection values		
Mains voltage	24 V DC / 90 VA	24 V DC / 130 VA
Heating power	80 W	120 W
Compressed air supply	4 - 6 bar, ø 6 mm	4 - 6 bar, ø 6 mm
Compressed air consumption	0.11 l per print	0.16 l per print
Device variations	Vertical / Horizontal / right / left	Vertical / Horizontal right / left / right / left
Dimensions (H x W x L)	V: 270 x 88 x 129 mm H: 142 x 235 x 127 mm	V: 206 x 190 x 166 mm H: 142 x 285 x 166 mm
Weight	3.7 kg	6.7 kg

hpdSYSTEM hot foil printer handles all your needs for reliability, easy operation, design, and control. You receive brilliant results and excellent flexibility. Our portfolio includes reliable equipment for your applications.


magno	moto
50 x 80 mm	20 x 20 mm
200 prints / minute	60 prints / minute
70 - 2,000 ms	20 - 2,000 ms
50 - 200 °C	50 - 220 °C
1170 N at 6 bar	580 N at 6 bar
305 m	-
110 mm	100 mm
2 - 50 mm	automatic
infinitely adjustable	
✓	✓
-	✓
-	✓
-	-
✓	-
-	-
-	✓
24 V DC / 170 VA	24 V DC / 130 VA
160 W	120 W
4 - 6 bar, ø 6 mm	3 - 6 bar, ø 6 mm
0.25 l per print	0.16 l per print
right / left	right / left
188 x 335 x 169 mm	146 x 293 x 176 mm
8.6 kg	8 kg
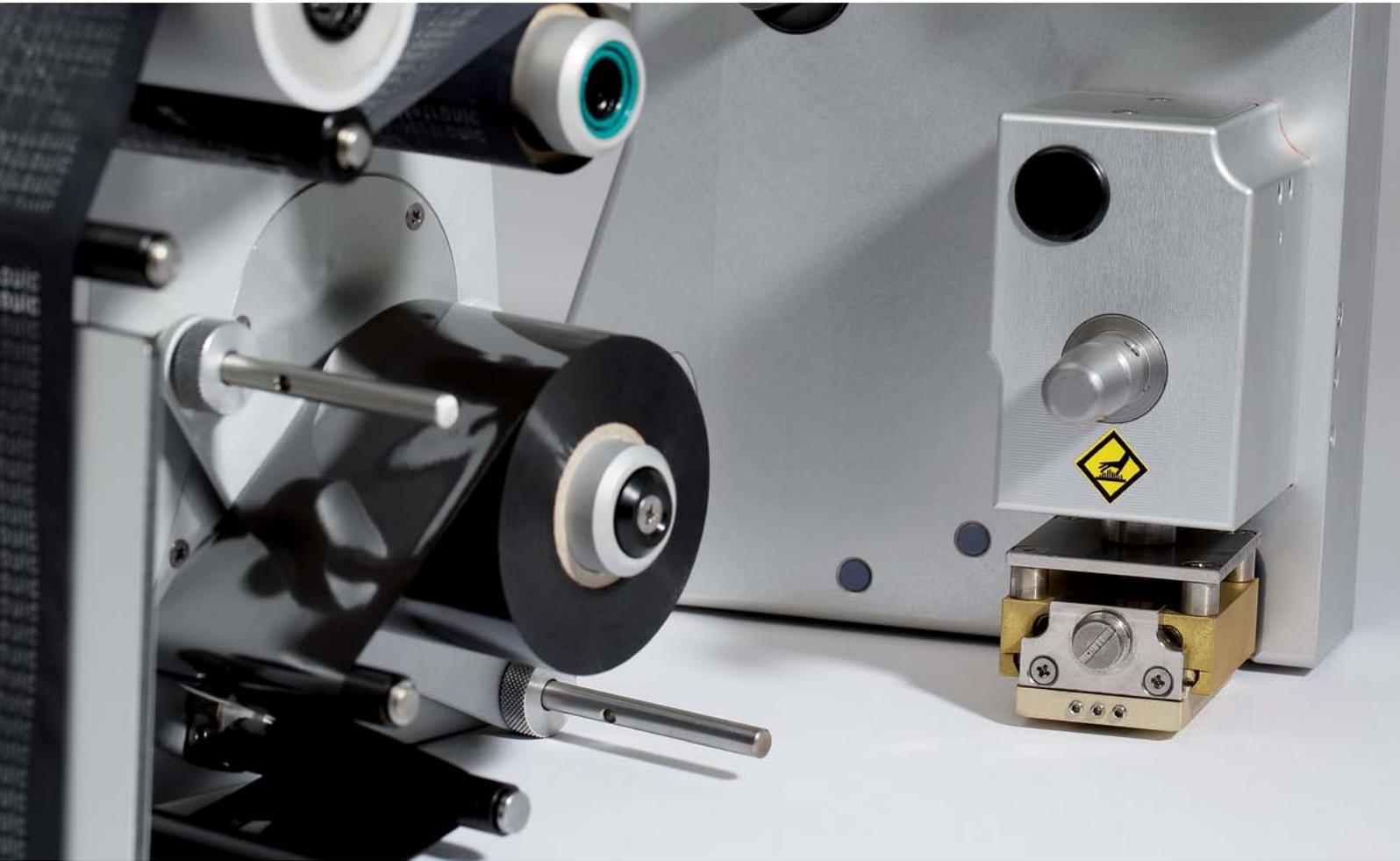
Easy integration into labelling and packaging machines

Well-developed details and practical accessories make your coding even better

Exchange cassettes
- for quick foil exchanges
- offer true flexibility for a wide variety of foil colours — including specialised colours
- simplify handling
- shorten your set-up times

Print types
We manufacture standard types, numbers, numerators, custom font types, logos, symbols or drawings according to your specifications quickly and reliably in our in-house engraving department.

Standardised device brackets for optimal integration
- custom height adjustment
- simple lateral adjustment using a turning spindle
- hpdSYSTEM printer turns in 90° steps with locking feature
- various widths up to 1,000 mm available in the standard version
- special sizes available

Manual workstation
For manual coding tasks — such as for tyres, pipes, cables, etc. — we offer standardised manual workstations with the right hpdSYSTEM printer.

**Add practical accessories
to your hpdSYSTEM hot foil printer**
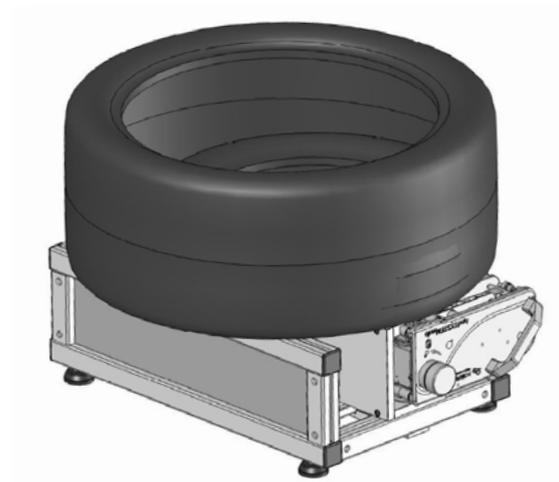
Table station for tire coding

Standardised mounting frames

More freedom in coding

Maximum printed surface:

nano:
15 mm x 30 mm

vario:
30 mm x 50 mm

magno:
50 mm x 80 mm
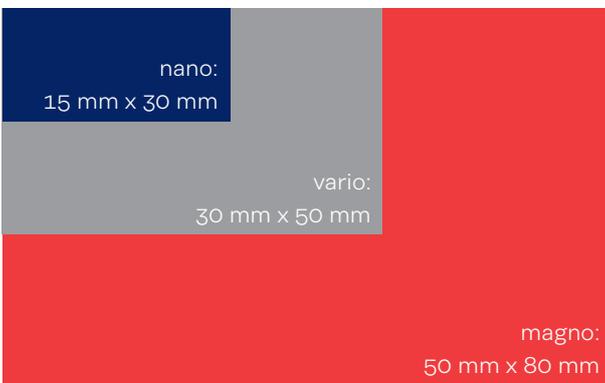
hpdSYSTEM nano
Miniature hot foil device with small dimensions for the use in packaging machines offering limited space.

hpdSYSTEM vario
The hot foil cassette device stands out with quick cycle times and easy handling using a foil cassette. The cassette is very easy to fit with coloured foil outside of the printing mechanism. For even quicker foil exchanges, simply add an exchange cassette to the printer.

hpdSYSTEM magno
Hot foil printing mechanism with side button. The unique feature of this system is an extremely large print surface stretching to the edge of the product.

Print types
We produce magnesium or silicone embossing plates in our in-house engraving manufacture as well as steel or brass print type according to your specifications: Custom Fonts, logos, or drawings — quickly, reliably, and guaranteed.

Straight N type

O type

T foot print type

Cable coding / ring printing with concave type
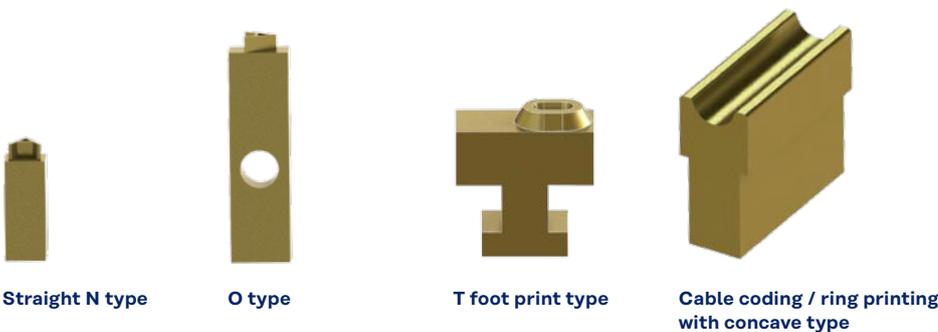
With up to 1,000 codes / minute and a large selection of coding variations, you have excellent flexibility in your print surfaces, left or right coding directions, and space requirements.

Galleys

Galley with transverse grooves

Galley with longitudinal grooves
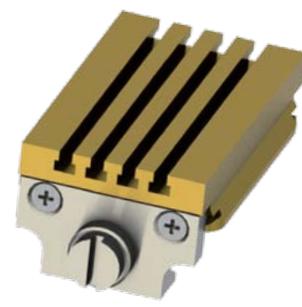
Galley with T-grooves

Galley with numbering machine
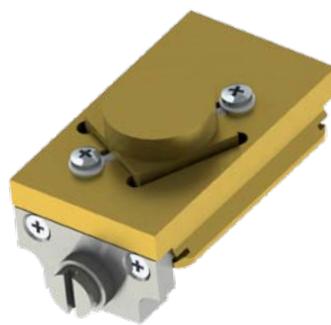
Galley for hpdSYSTEM moto with patented swivel type
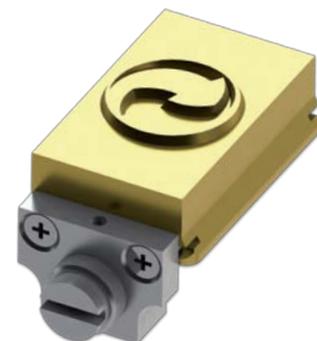
Custom galley

Consumable materials
Reliable coding quality, high scratch and light resistance form the foundation for a comprehensive range of foils in different colours and qualities. Upon request, we can deliver these colour foils with outstanding adhesive properties in your custom RAL and Pantone colours.

5 good reasons
to choose hpdSYSTEM

01

Low consumption combined with low prices means you save money.

02

Excellent uptime of over 99 % provides true production reliability.

03

Easy integration and high-speed printing increase your productivity.

04

A variety of colour foils lets you react flexibly to customer requests and increases customer loyalty.

05

A competent global sales and service team supports you at any times.

hpdSYSTEM
at a glance

General technical data

Product features

- Protection class IP 20
- Status I/O
- Foil end stop
- Printer reset function
- Integrated controller
- User-friendly handling
- Cassette devices in right-hand and left-hand versions

Interfaces

- Printer: RS 485
- Control unit RS 232

Operation

- Configure using control unit with membrane keyboard or PC Software hpdCONTROL

Environmental conditions

- Temperature +5 to +45 °C
- relative humidity max. 90 %, non condensing

Control unit

- 24 V / 10 A for a maximum of 2 printers

  with graphic display and membrane keyboard

  Protection class IP 54

- 110 - 240 V / 1 - 2 A for a maximum of 1 printer

  with graphic display and membrane keyboard

  Protection class IP 54