KOENIG & BAUER

alphaJET[5]

Continuous Inkjet (CIJ)

we're on it.

EN

Uncompromising reliability Coding with an outstanding value for money.

For over 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.

alphaJET5 HS
alphaJET5 HS-M
alphaJET5 SP

Continuous Inkjet (CIJ) coding is ideal, when speed and legibility of characters are important for applying variable dates directly at the production line.

In addition to precise printing results, our alphaJET printers offer you a very high degree of reliability in everyday production. Perfectly matched inks ensure the quality for your application. Put us to the test.

alphaJET5 HS sets the standard for industrial marking at high speed. This inkjet is already equipped with comprehensive software, e.g. for cable marking.

alphaJET5 HS-M is the groundbreaking adaptation of the well-proven alphaJET 5 HS. With this printer, you have more variety from our versatile ink portfolio at your disposal for product marking.

alphaJET5 SP has the architecture for incomparably precise coding and marking of even the smallest objects, e.g. in the automotive, electronics or medical industries.

Versatile, irrespective of industry

Food and Sweets

Mark your product plastic packaging, tin-plate, cardboard or film, with a current date, batch number and codes – according to your wishes. If required, simply add your individual promotion.

Beverages and Dairy

No matter whether you pack in glass, PET, cans, paper, composite packaging, foil or bags: You will obtain a permanent and high-contrast coding.

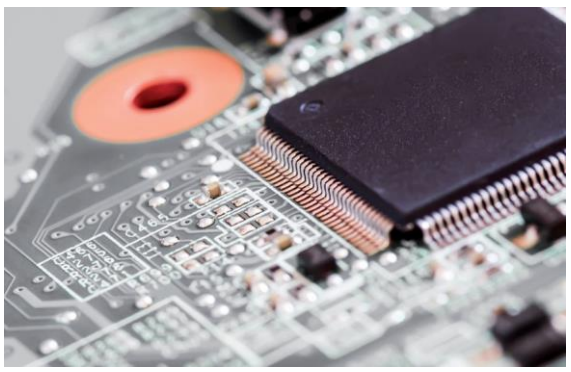
Cosmetics, pharmaceuticals and drugstore products

Designs and high-quality graphic compositions are printed accurately and precisely, also on glass and plastic.

alphaJET continuous inkjet printers mark perfectly in all industries, on a wide variety of materials and surfaces.

Cable and tubes

Regardless of the environmental conditions, you can mark cables, pipes, wires or hoses, clearly and legibly; even at very high speeds. We offer you high-contrast inks in various colours and the best adhesive properties for your application.



Electronics and components

Semiconductors, sensors, terminals, connectors, printed circuit boards, etc. – Mark your product in detail with a company logo, batch number, 1D or 2D codes for traceability, quality assurance and legal specifications.

Automotive

Datamatrix code, QR code, logo and other data in excellent readability and sharpness. Protect original products from counterfeiting. Get a clear identification by means of a precise marking.

Facts!

Thanks to simple, intuitive operation and intelligent software solutions, you get the best performance and gain around

+ 20 % productivity

From high-quality materials in a modern, quality-assured production, coding systems are built according to the latest state of the art with an

uptime > 99 %

Achieve the lowest consumption on the market, minimum operating costs and absolutely calculable follow-up costs

> 27 % savings

Compared to the average market level.

Do you want to make the most of savings potentials?
The alphaJET has the most efficient solvent recovery system RE-SOLVE Ultra. This saves you money every day. Clever financing solutions (e.g. rental or pay per code) and well thought logistics and service concepts increase your savings potential.

You require perfect start-stop behaviour from your marking device?
The combination of optimised nozzle closure, nozzle flushing and head heating form the Smart Start Technology integrated in the alphaJET5.
Even if your printer is in stand-by mode for a longer period of time, intermediate start-up or intensive cleaning processes are not necessary before restarting.
This saves valuable time.

In a nutshell.

You want more colour contrast for your coding?
Operate your alphaJET 5 inkjet with pigmented ink. Our large ink portfolio, from high-contrast to food grade to well adherent ink for challenging materials, our selection has the right answer for your requirements.

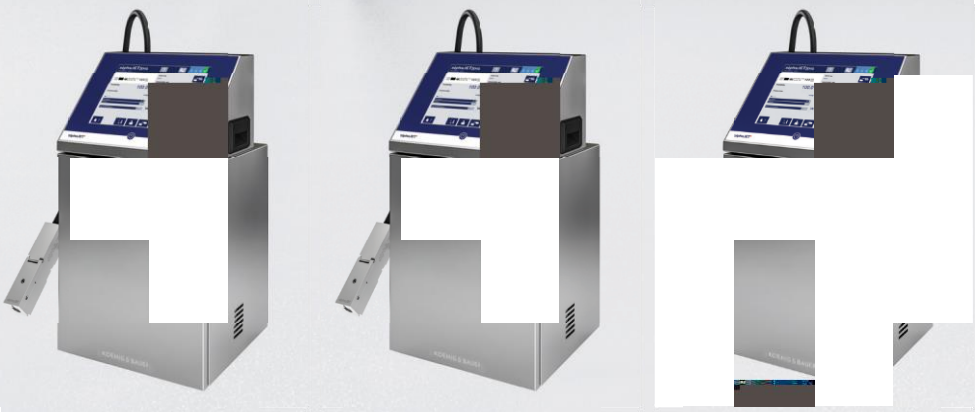
The marking should not lead to a loss of quality of the typeface even with increasing production?
The reliable alphaJET printers have been the fastest continuous inkjet printers on the market for years and are ready for your production increase.

Are your company's production facilities located internationally?
We offer you a competent sales and service team worldwide. The alphaJET does not only print in other languages, its colour touch display can be easily adapted to many language variants (e.g. Arabic, Cyrillic, Chinese and many more).

Is simple integration / control important to you?
The alphaJET5 has the matching interfaces to be easily connected to your machinery. Its smart integration offers you all possibilities for the future. Incidentally, you can also centrally operate, monitor and control all alphaJET printers with the modular PC software code-M and even verify the print image in real time with *print & check*.

Technical specifications

alphaJET[5]HS
alphaJET[5]HS-M
alphaJET[5]SP



	alphaJET[5] HS	alphaJET[5] HS-M	alphaJET[5] SP
Performance			
Line speed max.	1.300 m/min	700 m/min	1.300 m/min
Line speed at 2,5 mm character width	600 m/min	390 m/min	695 m/min
Max. lines	4	5	5
Print head			
Nozzle size	50 µm	62 µm	42 µm
Active Ink Flow	✓	✓	✓
Smart Start Technology	✓	✓	✓
Nozzle closure	✓	✓	✓
Supply hose length	4 m	4 m / 6 m	4 m
Ink			
Standard	✓	✓	✓
High-contrast	✓	✓ ✓	✓
Special	✓	✓ ✓	✓
Operation			
Touchscreen	10,4"	10,4"	10,4"
Camera interface	✓	✓	✓
code-M	✓	✓	✓
Special software	✓	✓	✓
Safety			
Protection class*	IP 65	IP 65	IP 65
Cooling function	✓	✓	✓
RE-SOLVE Ultra*	✓	✓	✓
Dimensions (H x W x L; mm)			
Housing	592 x 320 x 320, 23 kg	592 x 320 x 320, 23 kg	592 x 320 x 320, 23 kg
Print head	190 x 47 x 40, 2 kg	190 x 47 x 40, 2 kg	190 x 47 x 40, 2 kg

alphaJET5

Flexibility

Wider ink portfolio for almost every application: high-contrast, sustainable, adhesion properties, special performance, etc.

Smart Start Technology for perfect start-stop performance

Many state-of-the-art solutions are included as standard

Integration

Easy integration due to compact design and clever brackets

Interfaces offer smart integration possibilities into machinery and networks

Easy integration via wizards and On-Screen help

Velocity

Highest print speeds

Ultra fast handling and data processing

Smart Start Technology for perfect start-stop performance

Improved design makes service even faster and easier

Endurance

Promised service life for 20.000 hours on the pump motor - equivalent to approx. 11 years in single-shift operation

Extended interval for filter change

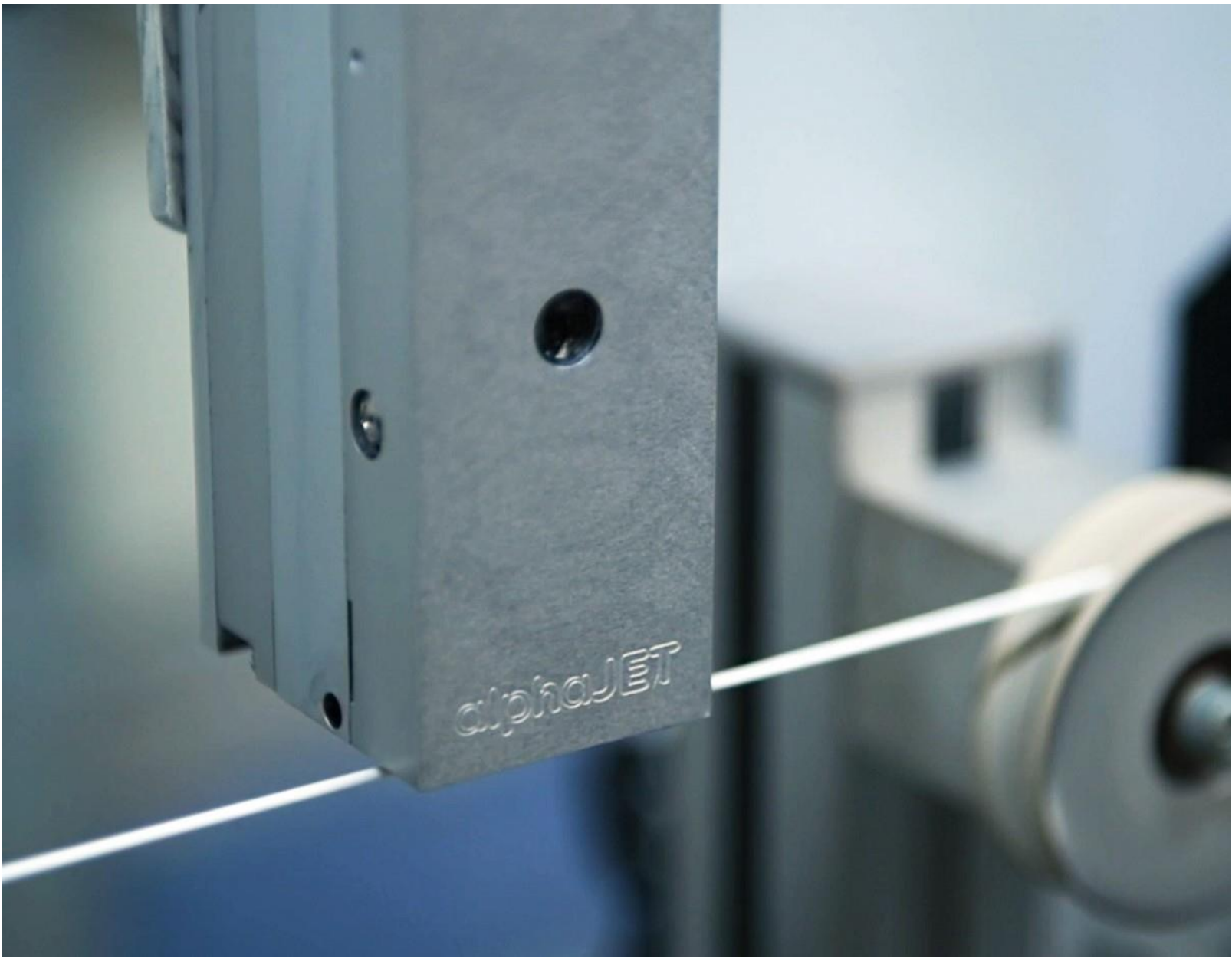
Top result in the TCO*-calculation due to favourable prices for consumables, low solvent consumption and low-maintenance operation

alphaJET Continuous Inkjet printers ensure accurate results and excellent reliability in any application.

Smart Start Technology
is the optimised combination of
- Nozzle shutter
- Nozzle flushing
- Print head heating

Smart Start Technology, Active Ink Flow and extremely precise pump pressure control ensure the alphaJET5's perfect start-stop behaviour and consistent print quality.

The inkjet that is ready for immediate use even after weeks of downtime with only minimal cleaning effort.



Easy integration into your production line

Unique details and functional accessories make your coding even better

Display
A large, full-colour touch screen
- simplifies intuitive operation
- provides real time information about the coding process
- displays the print text in the editor WYSIWYG

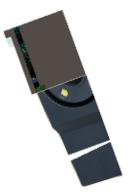
Software solutions
Extend the alphaJET[5] with a software solution that is convenient for you. Many state-of-the-art solutions are included as standard with your alphaJET[5]. Simplify your operation and avoid incorrect settings (e.g. with a hand-held scanner). You can conveniently prepare texts from the desktop, control and monitor your production with one or more modules of the code-M software suite.

Camera interface *Print & Check*
Take advantage of camera-based production reliability. Combined marking and verification of variable texts and codes in real time is an optimal solution with Print & Check. We are happy to support you with standardised and also with individual solution recommendations.

Print head
- Active Ink Flow ensures optimum ink viscosity. The result is a consistent superior print quality.
- The compact design allows integration even when space is limited.
- Thanks to the modular design, individual parts are very easy to clean or to exchange
- Save unnecessary traversing units and axes by rotating the print image.

Supplement your alphaJET[5] with functional accessories

Mobile cart

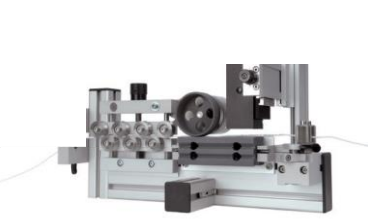


Camera

Handheld scanner

Cleaning device

Signal beacon (external)



Cable guide unit

alphaJET[5] HS
alphaJET[5] HS-M
alphaJET[5] SP

More freedom in coding

Font / Lines	Print sample	max. line speed for the font shown/lines (m/min) evo / into 55/70 µm	SP 42 µm
m5	ABCDEFG 1234567890	347.4	525
m7x5	ABCDEFG 1234567890	287.4	
m23	ABCDEFG 1234567890	45	58.2
m32x24		34.2	34.8
a7x5		258.6	487.8
a9x5		187.2	301.2
a9x6		195	296.4
Arial 24	ABCDEFG 1234567890	52.2	66.6
Arial 32	ABCDEFG 1234567890	32.4	33
ocr 11x7	ABCDEFG 1234567890	168	
2-lines m5	ABCDEFG 1234567890 ABCDEFG 1234567890	174	
2-lines m7x5	ABCDEFG 1234567890 ABCDEFG 1234567890	103.2	
2-lines m15	ABCDEFG 1234567890 ABCDEFG 1234567890	38.4	39
4-lines m7x5	ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890	27.6	41.4
6-lines a7x5	ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890	16.8	unavailable
8-lines m5	ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890 ABCDEFG 1234567890	16.8	unavailable

487.8

170.4

264.6

276

12 Please contact us. On request we will gladly create individual fonts for you.

Print samples

Barcodes / 1D codes

GS1 128 (EAN 128)

Code 39

2/5 interleaved

EAN 13

2D codes

DMC code square

DMC code rectangle

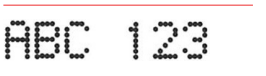
QR code

DOT code

Nozzle size

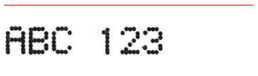
70 µm

62 µm



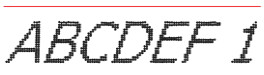
55 µm

50 µm

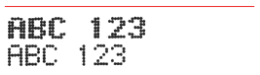


42 µm

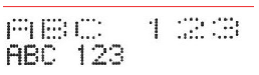
Text variants



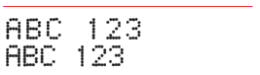
italic



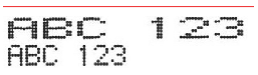
bold



blank strokes between strokes

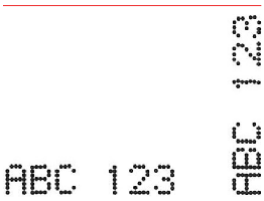


character spacing (blank strokes between characters)

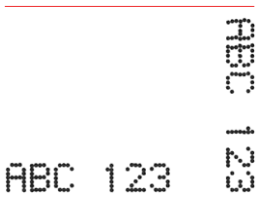


twin stroke / multiple stroke

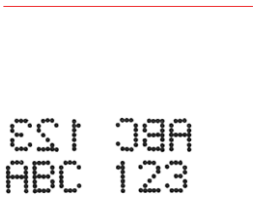
Formats



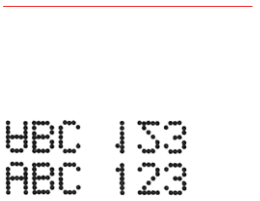
Rotate 90°



Rotate 90° clockwise



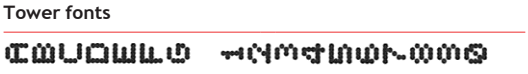
mirrored



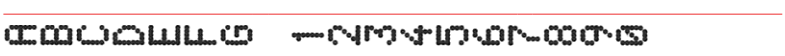
upside down

inverted / negative

Tower fonts

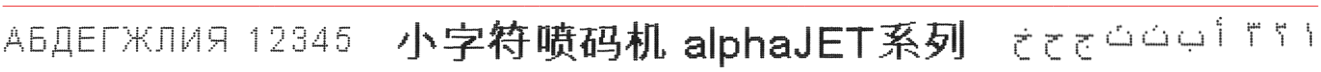


m5t



m7x5t

Languages



Logos

The print samples shown in this overview are for visualization purposes only. The real print images depend on various influencing factors such as e.g. environmental conditions, substrate, surface, etc. We would be happy to provide your personal print sample for your specific application.

SMART
CODING & LABELING

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At a glance

General technical data

Interfaces

- Network (TCP/IP)
- RS232
- USB (file-management)
- Digital I/O port
- Potential-free programmable alarm relay
- 4-colour signal beacon (option)

Operation

- Touch screen, graphical user interface
- Adjustable user rights
- Modular software code-M
- Windows printer driver

Text composition

- Product counter (with auto-stop function), time functions
- Global Counter (for all print texts)
- DataMatrix, QR code, barcodes, DotCode
- Characters and logos (BMP-format)
- Data fields (can be filled via an interface)
- Prompted fields (input prompt)
- True Type Fonts (international language and character sets)

Product attributes

- Protection class IP 65 (dust-tight and protection against splashed water)
- Smart Start Technology
- RE-SOLVE Ultra (solvent recovery)
- User management

Connection values

- Mains voltage (AC) 86 - 264 V, ± 10 %
- max. power consumption 0.5 A / 230 V; 1 A / 110 V

CONTACT	ANALYSIS	CONCEPT	RESULT
Your non-committal inquiry by email or by telephone is the first step. Please contact us.	Our experts will work with you to clarify your current situation and identify your demands.	According to your demands we will make you an attractive offer and, if you wish, carry out a test run in your production.	If you agree with that concept, we will realise your order and support you throughout the entire implementation process.

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