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PRINTERS, INKS & SPARE PARTS

DATA SHEET

FUNAI VARIABLE DATA INKJET SYSTEM

KF

108 m/min
max. speed

27 mm
max. print height

10 ms
inkjet response

10"
HD touch screen

FUNAI High-speed variable Data INKJET SYSTEM. KF1 (1 headprinter) · KF2 (2 headprinters)



About the product

- **10-inch HD touch screen.** Thin body with complete interfaces.
- **Anti-counterfeiting** traceable data inkjet.
- **Real-time calculation** of printing cost.
- **Production line alarm light** control.
- **GS1 DataMatrix.**
- KF family interface is **user-friendly and intuitive.**
- **Aerospace aluminum** industrial protection.
- Software allows seamless stitching.
- **Network remote centralized management.**
- **Wireless keyboard and mouse** control.
- **Easy to install, configure and code.** The only manufacturer to offer a **2-year extended warranty.**

More reliable professional hardware

Uses American TI Company AM3358 Industrial-grade high-performance CPU, American Xilinx Company Spartan6 Industrial-grade high-speed computing FPGA printing engine, Industrial-grade TIJ inkjet special ASIC chip set, Motherboard adopts anti-interference industrial-grade solid-state electronic components, SMT manufacturing process, dustproof, moisture-proof, corrosion-resistant industrial-grade protective body, 10.1-inch industrial touch display, supports network USB serial port alarm and other complete external hardware interfaces, all industrial-grade hardware ensures reliable and stable application in various complex working conditions, applicable in high and low temperature, dusty, humid, and interference environments, to achieve stable printing quality.

More powerful software system

Stable and efficient architecture industrial-grade embedded Linux secure intelligent operating system, independently developed ultra-high-speed inkjet management system, ultra-high-speed inkjet response within 10 milliseconds, efficient and flexible dynamic database printing function, supports remote network centralized management and control, supports traceability system, anti-counterfeiting system, food and drug supervision code, dynamic database, real-time high-speed inkjet powerful GS1 two-dimensional code and barcode, functions meet various variable code application needs of customers, built-in powerful ink drop consumption dedicated algorithm can instantly calculate printing costs for customers, scanner input, wireless keyboard and mouse control multi-level security menu, supports over 40 kinds of multilingual languages.

Technical specifications, FUNAI printer

- Seamless stitching of dual printheads, can be independently installed.
- Adjustable grayscale from 1 to 6 levels, providing rich black printing effects.
- Ink cartridges feature buckle-style installation for simplicity and reliability.
- Various optional brackets available for different installation methods.
- Supports multiple FUNAI ink cartridges, including water-based and quick-drying options.
- Easily compatible with weighing machines, packaging machines, and paging conveyors.
- Supports OEM brand functionality for personalized customization.

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Machine

Body material	Industrial stainless steel
Operating system	Embedded Linux Operating System
Comm. Interface	USB, RS232, TCP/IP network interfaces (supporting network remote centralized control and management, integration with weighing machines/conveyors/paging machines/packaging machines/ERP databases/pharmaceutical supervision codes/anti-counterfeiting traceability systems).
Working Environment	Temp 0-45 ℃ / Humidity 30 to 70 % RH
Power Supply	30 Volts 3 Amps DC output
Dimension	Controller 253 mm*155 mm*37 mm - Printhead Group: 113 mm*100 mm*39 mm
External interface	Photocell, Encoder, External Reverse/Inverse control, Alarm outputs, External data Selection.
Main Hardware	American TI AM3358 industrial grade CPU / USA Xilinx Spartan6 industrial grade FPGA / TIJ dedicated ASIC chip
Languages	Supports over 40 languages from various countries and regions (Chinese/English/Arabic/Russian/French/Vietnamese/Korean/Burmese/Indonesian/Hindi/Portuguese/Japanese/Spanish/Italian...).

Printing Head

Nozzle Type	FUNAI Printhead
Print Accuracy	108 m/min (320 X 100 DPI), 76.2 m/min (320 X 160 DPI), 60.8 m/min (320 X 300 DPI) (multiple sets of variable data with ultra-high-speed response inkjet printing within 10 milliseconds)
Print Height	Minimum printing height: 1 mm, single printhead printing height: 13.5 mm, maximum printing height for dual printheads: 27 mm (optimal quality distance between printhead and printing surface: 1-2 mm)
Ink type	Water-based, oil-based, weak solvent, solvent 40 ml ink cartridges.
Ink color	Black
Cartridge chip	RFID non-contact chips, automatically identify the optimal parameters for ink and record ink levels.
Printable substrates	Cardboard/plastic/metal/wood/pipes/stone/glass/cables/electronic components/automobile spare parts/industrial chemical packaging/medical and food gift packing boxes.
Print contents	Multi-language characters/GS1 DataMatrix/dynamic traceability QR codes/barcodes/graphics/serial numbers/date/shift/counter/variable databases/network serial port real-time dynamic data printing, etc.

Where it can mark



Packing cardboard



Medicine



Dynamic trace QR code



Dynamic security label



Security UV ink



PET plastic