tidirefi
PRINTERS , INKS & SPARE PARTS

DATA SHEET

INDUSTRIAL TIJ PRINTER

KD1

406 m/min
max. speed

600 DPI
resolution

12.7 mm
max. print height

TIJ 2.5
thermal printhead

Integrated variable data printing system. Controllerless printer, no display required, online-controlled stand-alone printhead. Portable, smaller footprint, more freedom to print and better performance-price.



About the product

- **Integrated design** for easy installation, with complete functions.
- **Reduced space requirements**, more suitable for small production lines.
- Supports **remote PC control** and offline printing.
- **GS1 / DM / QR codes** and other anti-counterfeit tracking printing, up to **406 m/min**.
- **Self-developed software**, easy to configure.
- The number of nozzles can be **spliced as required**.



Built-in "quick start" and "head cleaning" buttons


PC-controlled

Introduction

KD1 printer has a high-performance 1.2 GHz dual-core Cortex-A7 industrial processor, an independently self-developed print engineering algorithm, an industrial FPGA chip and high-level anti-interference motherboard, equipped with USB, serial, sensor and encoder ports. It can produce stable print quality at high and low temperature and in dusty, wet and electrically interfering environments.

It has a smart, stable and efficient Linux operating system and an independent self-developed high-speed print management printer that can achieve high quality dynamic printing. It supports traceability, anti-counterfeit systems, food and drug control codes and dynamic databases. The print speed can reach up to 406 m/min and print resolution up to 600 dpi. OEM support and printer customisation are available.

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Machine

Operating system	Embedded Linux operating system
Hardware	Cortex-A7 1.2 GHz dual core processor, FPGA algorithm acceleration chipset
COMM ports	USB, RS232, RJ45
External interface	Optical sensor, encoder, upside down control
Power supply	Input: AC 100-240 V / Output: DC 30 V 1.5 A
Housing material	Industrial grade protective housing (aerospace grade aluminium)
Dimensions	128 mm x 87 mm x 27 mm
Work environment	Temperature: 0-45 ºC / Humidity: 30-70 %



Printing

Printing type	TIJ 2.5 thermal head
Print resolution	Up to 600 dpi / up to 6 levels of print density
Print height	From 1 mm to 12.7 mm
Print speed	406 m/min (90 dpi) / 240 m/min (150 dpi) / 120 m/min (300 dpi) / 60 m/min (600 dpi)
Print contents	Multi language characters, GS1 data matrix, dynamic traceability QR code, bar code, image, serial number, date, shift, counter, variable database, network serial port, real-time dynamic data printing
Printable materials	Cardboard, plastic, electronic component, metal, cable, wireless, stone, pipe, auto parts, industrial and chemical packaging, pharmaceutical/food/gift packaging
Ink type	Solvent, water-based, oil-based, food grade, UV. 42 ml cartridge
Ink color	Black, white, red, yellow, blue, green, invisible, UV
Cartridge chip	Contactless RFID chips allow automatic recognition and control of parameters and ink consumption

Where it can mark


Packing cardboard

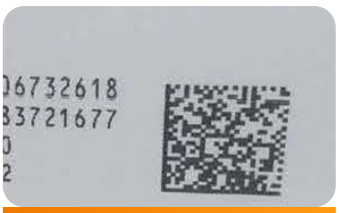

Medicines


Furniture and wood


Food packaging


Plastic


Security UV ink


Dynamic QR codes