tidirefi
PRINTERS , INKS & SPARE PARTS

DATA SHEET

HIGH SPEED INDUSTRIAL TIJ PRINTER

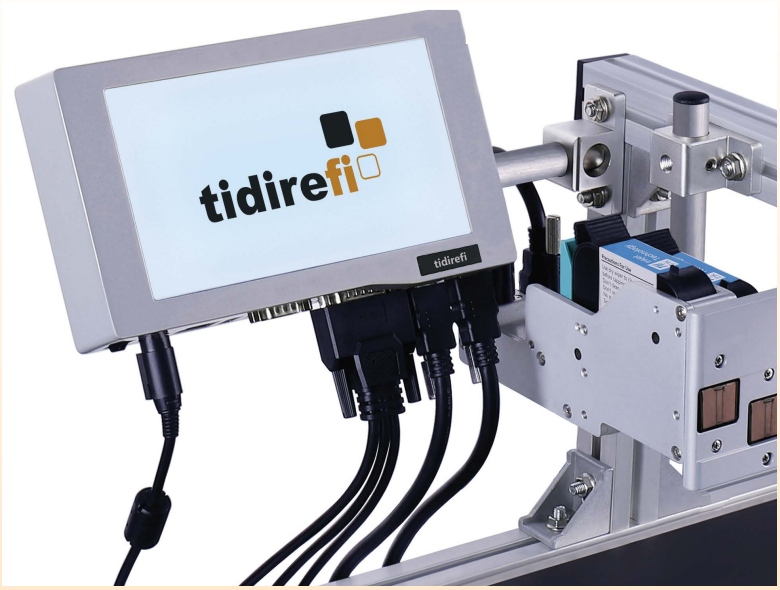
K140NHS

240 m/min
max. speed

600 DPI
resolution

25.4 mm
max. print height

TIJ 2.5
thermal printhead



About the product

- **Easy to install, configure and code.**
- **GS1 Datamatrix.**
- **Thinner and lighter** controller.
- **Network remote centralized management.**
- **Production line alarm light control.**
- **Calculate printing costs** in real time.
- **Wireless keyboard and mouse** control.
- **Anti-counterfeiting** trace data printing.
- Printing speed up to **240 m/min.**



More reliable and professional hardware

The use of the American TI's AM3358 Industrial Grade CPU, Xilinx Spartan6 Industrial Grade FPGA. Provides a more stable, reliable and anti-interference system in several working conditions, making the printing experience unique.

The print engine uses a dedicated TIJ ASIC chip, a perfect match for a variety of original and licensed HP inks.

Professional cartridge pre-heating algorithm guarantees optimal print quality in extreme environments or places with high and low temperature.

More powerful and smarter software

The integrated Linux operating system provides a professional and user-friendly interface.

Powerful integrated ink consumption algorithm allows fast cost-per-print calculation.

Powerful variable 2D code functions to meet today's growing customer demand.

Efficient and flexible variable database functions to meet various application requirements for product traceability.

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Features

- Double printhead with no stitching system and independent installation.
- Suitable for weighers, packing machines and production lines.
- Simpler and more reliable cartridge adjustment system.
- Adjustable ink density to suit all requirements.
- Dual phase encoder guarantees high-quality printing.
- Allows large capacity ink bags and continuous ink supply system.
- Several types of installation depending on customer requirements.

Technical parameters: Machine

Housing material	Industrial stainless steel
Operating system	Linux operating system
COMM ports	Network interface USB / RJ45 to RS-232
Working environment	Temperature: 0-55 ºC / Humidity: 30-70 %
Power supply	Input: AC 100-240 V 50-60 Hz / Output: 30 V 4 A
Dimensions	Controller: 202 mm x 119 mm x 61.2 mm / Printhead: 112 mm x 79 mm x 103 mm
External interface	Photocell, encoder, external reverse/inverse control, alarm outputs
Hardware	American TI AM3358 industrial grade CPU / USA Xilinx Spartan6 industrial grade FPGA / TIJ dedicated ASIC chip
Languages	Italian, English, French, Finnish, Arabic, Danish, German, Russian, Norwegian, Portuguese, Spanish, Japanese



Printing head

Nozzle type	TIJ 2.5 thermal printhead
Print distance	2 mm to 5 mm
Print accuracy	150 DPI / 300 DPI / 600 DPI
Print speed	120 m/min at 300 DPI
Print height	From 1 mm to 25.4 mm
Ink type	Solvent and water-based ink, 42 ml cartridges
Ink color	Black, white, red, yellow, blue, green, stealth, UV readable
Cartridge chip	Contactless RFID chips allow automatic recognition and control of parameters and ink consumption
Printable substrates	Cardboard, plastic, metal, cables, electronic components, auto parts, industrial chemical packaging, pharmaceuticals and more
Print contents	Multi language characters, 2D code, barcode, images, serial numbers, date, counters, variable database, RS232 to receive real data to print