tidirefi
PRINTERS, INKS & SPARE PARTS

DATA SHEET

INDUSTRIAL TIJ PRINTER

K160NE

300 m/min
max. line speed

600 DPI
max. resolution

76.2 mm
max. height (D6U)

6
max. printheads

Fast and easy high resolution printer.



About the product

- **High speed printing:** up to 120 m/min at 300 DPI.
- **Easy to use:** 7" touchscreen with intuitive interface for easy configuration.
- Mounting brackets for controller and printheads.
- 30 V power supply.
- Cylindrical direct reflection photocell with connector and 2 m cable. Depending on the configuration of the printer, up to **6 photocells** can be installed, one per printhead.
- LAN + full connectivity with multiple systems.
- **Easy to install, configure and code.**



Printer equipped with surge, crosstalk and harmonic filters



Solid-state electronic boards. Military-grade resistance

Configurations

7 inch touchscreen controller with one, two, three, four, five or six printheads separated or joined by 1.8 meter umbilical.

Versatile solutions

High resolution printing at high speed.

HIGH QUALITY. Texts, logos, barcodes, QR codes and high density pictures.

EFFICIENT AND FLEXIBLE. Database compatible to suit any type of industrial application.

VARIABLE PRINT CONTROL. 150 DPI / 300 DPI / 600 DPI print resolution for optimal printing.

Robustness

Suitable for any type of environment (whether wet, dusty, corrosive...).

QUICK SETUP. Fast and intuitive parameter setting.

SAFE OPERATION. Easy configuration of safety parameters.

PROFITABILITY OF PRINTING COSTS. Cost per print calculator. Bulk system installation possible to save on printing costs. **Easy printing at low cost.**

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Wide range of inks

Polymeric for non-porous materials. Water-based for porous and semi-porous materials. Food dye, pigmented, invisible, UV. Wide range of colors. High adherence and long decap.

Printhead configurations

D1 x 2	2 individual printheads, height per printhead 1/2 inch - 12.7 mm
D1 x 3	3 individual printheads, height per printhead 1/2 inch - 12.7 mm
D1 x 4	4 individual printheads, height per printhead 1/2 inch - 12.7 mm
D1 x 5	5 individual printheads, height per printhead 1/2 inch - 12.7 mm
D1 x 6	6 individual printheads, height per printhead 1/2 inch - 12.7 mm
D2U	1 double joined printhead with an overall height of 1 inch - 25.4 mm
D3U	1 triple joined printhead with an overall height of 1.5 inch - 38.10 mm
D4U	1 quadruple bonded printhead with an overall height of 2 inches - 50.8 mm
D5U	1 quintuple bonded printhead with an overall height of 2.5 inches - 63.5 mm
D6U	1 sextuple bonded printhead with an overall height of 3 inches - 76.2 mm



Printer

Housing	Steel housings and compact design
Operating system	Linux
Electronics	Solid-state electronics with military-grade resistance and non-moving parts
CPU	Equipped with anti-interference system
Interface	7" touchscreen
Templates	WYSIWYG templates and printing review
Safety	Menu-driven configuration of safety parameters
Ports	One USB port and one RS-232 / RJ45 port
Inputs	Encoder and sensor
Input	AC 100-240 V 50-60 Hz
Output	DC 12.6 V 3 A
Operating temperature	0-55 ºC
Water-based inks	10-40 ºC
Polymeric inks	15-35 ºC
Humidity	30-70 % (without condensation)
Language	Multilanguage
Controller dimensions	200 mm x 120 mm x 60 mm
Weight	970 g

Line speed and print resolution

Max. print speed	300 m/min
Max. print resolution	600 DPI

Printing features

Data	Static text, user inserts, date / time, shift codes, counters and variable data
Fonts	TrueType Windows fonts
Barcode	Codabar, Code128, Code39, Code93, EAN8, EAN13, EAN128, Pharmacode, Plessey, UPC-A, ...
2D barcode	Datamatrix, QR code, MicroQR, Maxicode, ...

Printhead

Technology	TIJ 2.5
Printing distance	2-6 mm
RFID	Cartridge parameters and ink levels managed by RFID recognition

Where it can mark



Dynamic QR codes



UV security inks