



UMS20

High-Speed Variable Data Printing System



KEY CAPABILITIES

- ◆ GS1 DataMatrix coding
- ◆ Network remote centralised management
- ◆ Production-line alarm light control
- ◆ Real-time print cost calculation
- ◆ Wireless keyboard and mouse control
- ◆ Anti-counterfeiting trace data printing
- ◆ Print speed up to 240 m/min at 150 DPI

MORE RELIABLE HARDWARE

American TI AM3358 industrial-grade CPU and Xilinx Spartan-6 FPGA give stable, interference-resistant operation across demanding plant conditions. The print engine uses a dedicated TIJ ASIC chip matched to original and licensed HP inks, and a cartridge pre-heat algorithm holds print quality steady at both high and low ambient temperatures.

MORE POWERFUL SOFTWARE

An embedded Linux operating system delivers a professional, easy-to-learn interface. A drop-consumption algorithm calculates cost per print in real time, powerful 2D code variable functions meet growing traceability requirements, and flexible variable-database functions support traceability across a wide range of applications.

240 m/min

MAX LINE SPEED AT 150 DPI

600 DPI

MAX PRINT RESOLUTION

25.4 mm

MAX PRINT HEIGHT

CONFIGURATION & HANDLING

- ◆ Double nozzles with seamless stitching, independently installed
- ◆ Easily matched to weighing, packing and paging machines
- ◆ Snap-on cartridge — simpler and more reliable
- ◆ Adjustable inkjet concentration for different substrates
- ◆ Large-capacity ink bags and continuous ink supply supported
- ◆ Multiple brackets and installation methods to choose from



TECHNICAL PARAMETERS

MACHINE	
Body Material	Industrial stainless steel
Operating System	Embedded Linux operating system
Comms Interface	Network interface · USB / RJ45 to RS-232
Working Environment	Max 55 °C ambient · 30–70 % RH
Power Supply	100–240 V AC 50–60 Hz input / 30 V DC 4 A output
Dimensions	Controller 202 × 119 × 61.2 mm · Head holster 112 × 79 × 103 mm
Main Hardware	TI AM3358 industrial-grade CPU · Xilinx Spartan-6 FPGA · dedicated TIJ ASIC chip
Languages	English, French, German, Italian, Spanish, Portuguese, Russian, Arabic, Japanese and more
External Interface	Photocell, encoder, reverse/inverse control, alarm outputs, serial-number reset, external data selection
PRINTING HEAD	
Nozzle Type	Thermally foamable head, TIJ 2.5 · double nozzles with seamless stitching
Print Distance	2 mm to 5 mm
Print Resolution	150 / 300 / 600 DPI
Print Speed	Up to 240 m/min at 150 DPI · 120 m/min at 300 DPI
Print Height	Minimum 1 mm · maximum 25.4 mm
Ink Type	Aqueous or solvent-based 42 ml cartridges · continuous ink supply supported
Ink Colour	Black, white, red, yellow, blue, green, stealth and UV-readable
Cartridge Chip	Contactless RFID tag — automatic identification and recording of ink parameters and consumption
Substrates	Cardboard, plastic, metal, cables, electronic components, auto parts, chemical packaging, pharmaceuticals
Print Contents	Text, 2D codes, barcodes, images, serial numbers, dates, counters, variable database · RS-232 live data

APPLICATIONS & PRINT SAMPLES

Specifications are indicative and subject to change without notice.



Packing carton



Medicine



Furniture & wood



Food packaging



PET plastics



GS1 DataMatrix



Security barcode



Multi-group printing



HD bold font



Multi-dot font