

AGENCY SHOP LTD INK RIBBON PAPER COMPANY, UK

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HIGH RESOLUTION HP TIJ 2.5 & 4.0 COMPLIANT PACKAGING & CODING THERMAL INKJET INKS FOR INDUSTRIAL CODERS, PRINTERS AND PRESSES.

1.0. OFFERINGS

- Printer-specific inks compliant with HP TIJ DOD print & print resolution technologies and cartridge design.
 - Inks manufactured for printer and industrial grade print head manufacturers - with reliable jetting, adhesion, durability & colour performance.
 - Inks for long decap and fast- & ultrafast - dry times, suitable for primary marking and case coding
 - Regular aqueous and UV curable inks
 - Security packaging inks: UV curable & solvent UV fluorescent and aqueous UV & IR fluorescent. Visible only under UV or IR light, as applicable. Not visible to the naked eye alone
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2.0. INK TYPES

Regular & security, fully optimised, high resolution, high speed printing ink formulations for porous and non-porous substrates, industrial grade HP thermal print heads, inline/offline desktop printer & ink system manufacturers, as well as packaging/mailling applications:

- **Regular: Aqueous pigment mailing & coding inks** – universal in application, smudge-resistant, with 2-year shelf life, ultra-fast & fast dry options (fast dry for porous & uncoated paper-based substrates, and ultra-fast dry for synthetic Teslin, treated non porous foils/blisters, and coated paper-based media). Fade resistant. Excellent water & light fastness for barcoding, data matrix codes and small character high resolution prints. Highly stable, no agitation is required before use. [For high speed industrial printing on porous, coated/non-porous paper, corrugated paper (uncoated egg tray & carton box), synthetics (Teslin, etc), and other semi-porous substrates. Does not dry in cartridge or print head. Ideal for text/graphics without blurs]
- **Regular: UV Curable specialty inks for marking, identification, and labelling** of difficult, semi- and non-porous substrates. High quality, waterproof output. Good adhesion, fastness, and dry time. They cure instantly when irradiated by low energy consumption UV-led or conventional mercury UV lamp. Upon curing, they produce sharp, legible numbers and letters on a variety of printable substrates. Prints well on polyester, vinyl, glass, PVC, etc.
- **Security. Aqueous Invisible UV & IR, Solvent UV, and UV curing UV fluorescent inks** (fast-immediate dry, 2-year shelf life):
 - *Our aqueous TIJ security UV & IR products* come in pigment & dye based formulations specifically developed with good bonding for the packaging industry. Both security products print well on porous (uncoated paper/cardboard, uncoated corrugated packaging [egg tray]), semi-porous, synthetic (Teslin), and some special non-porous substrates (such as treated/coated papers, non-glossy papers, and blister/coated foils that typically cannot be printed with water-based inkjet inks). In addition, our invisible UV fluorescent inks can also print on non-woven cloth labels, while the invisible infrared products can print perfectly well on offset and glossy surfaces. Both aqueous inks are durable, high-quality options for printing security documents (including mailings) for applications across - industries. No need for priming. No blurring from imprints on substrates. Views of overt/covert security features are usually enhanced.
 - *Our solvent TIJ security product*, a pigment ink with long decap time, is the security version of our replacement for regular HP2580 (SKU. B3F58B) solvent ink cartridge for marking & coding. It offers dense prints on porous, semi-porous to non-porous substrates: offset paper, coated paper, coated & uncoated corrugated paper, glossy surfaces, flexible films (PET, PP), hard plastics (HDPE, PC, Teslin, PVC), blister foils, etc.
 - *Our UV/UV-led curable security ink formulation* is available in new HP approved ink cartridges designed to work in most HP-licenced print engines/VDUs for the industrial, commercial, and graphic printing market. It is formulated with nano-sized pigment to jet

reliably and provide precise ink drop placement and to optimise print quality. It offers instant-dry prints! Unlike water-based inks, no heat or air drying is required for curing. Our inks cure at the wavelength of the UV light specified by standard UV or UV-Led lamps. Typical substrates include rigid & flexible vinyl, rigid PVC, PC, rigid PE, ID cards, data-cards, mailing labels, etc.

- **Invisible UV/NIR Inks Detection:** from 365nm (UV) and 750nm - 1100nm (NIR), using black light (UV lamp) and filtered digital NIR camera/camcoder/IR scanner-reader (NIR-light) respectively. Both ink types provide high and superior covert security to products via the packaging materials and labels on which they are applied. Each ink can be used separately or in combination with the other to provide additional layer(s) of document/product/ label security. Besides, they are incredibly easy & low-cost solutions to implement & validate- by individuals and small or large organisations - wishing to maintain their document security integrity by printing in-house, digitally and on-demand.
 - **Brands:** OEM branded (VideoJet/Wolkes & Digital Designs/Evolution), as well as Compatible (unbranded) inks from manufacturers who supply OEMs.
 - **Availability:** OEM inks in ink cartridges only, and Compatible inks in bulk & ink cartridges. All cartridge designs & manufacture are HP approved: clean snap-in & snap-out HP45 cartridges, and large capacity 770ml ink tanks.
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3.0. Substrates & Print Resolutions

High resolution prints (up to 600dpi for TIJ 2.5, and up to 2400 dpi for TIJ4.0 systems at speeds of up to 300m/min) on porous, semi-porous and non-porous rigid & flexible heat sensitive materials.

As stated elsewhere, these include:

- Paper (coated & uncoated) such as laminated paper board, coated chip board, corrugated carton papers (for case and inner boxes for eggs, drinks, water bottles, pharmaceuticals, nutritional candy products, fish, cereals, pastas, other foods & beverages, cosmetics/personal care, etc.).
- Rigid plastics & Synthetic such as PVC/Polycarbonate/Teslin - card; Polyethylene (HHPE) - grocery & other retail packaging bags/containers.

- Flexible plastics such as acrylic coated blister foil, polypropylene (pp), polyethylene (LDPE) shrink and other packaging films for bagging, casing, wrapping, etc.
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4.0. Applications

- In-line and off-line packaging (product & secondary case coding). Directly imprinting high definition product authentication, personalisations, and other variable data (e.g., best-before dates, serial/batch numbers, manufacturing codes, quality assurance info., graphics, time format, shift codes, tracking/tracing barcodes and alphanumeric codes, company logos, etc.) in small & large font codes/characters (12.7mm, 17mm, 53mm, 70mm+ high) on case, pouch/inner carton
 - Security ID Cards (PC & PVC), Tickets, Lottery Coupons, and other business forms
 - Security packaging, invisible marking, & brand protection. Anti-counterfeit, unique markings to protect, verify and authenticate your package/product/identity. Covert text/images/features/control codes can be applied anywhere on the packaging material (and in as many sections as you require to define the complexity of your security) without altering the beauty of your design artwork. Make the Original distinguishable from the Counterfeit!
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5.0. Compatible Machines/Systems

Our regular or security pigment/dye/hybrid aqueous, solvent, and UV curable inkjet inks, in bulk and/or cartridge, suit a range of printing systems including:

- HP TIJ4.0 high-speed, high-volume industrial printers and web presses (using M500/800, C500/800 HP Direct Mail & Transaction Monochrome/Colour Print Modules); Mark Andy MA2200L, MA2200XL, MA2200 servo, MA415, MA4120, MA2100, MA830 labelling presses/printing systems using TIJ 4.0 850 VDUs; HP M4000, Webtron 650, DJM IPAS 425i, and T370, T380, 390HD, T470, T480 and T49HD presses using TIJ 4.0 425 VDUs ;
- JetFlex TIJ2.5 2500/2600/3000 VDUs; Loogal TIJ2.5 SAJET/CodeJet 1/II/III/IV Monochrome Printers
- HP TIJ 2.5 based Line/Mail Room addressing/inserting equipment/mail tables by Bryce; Buskro (Apollo 1600, 2600, 3600, 4600); HAS; Kirk Rudy; Neopost (AS-830/930/AS-710/AS-520C); Pitney

Bowes; Rena; RSI CaseJet MVP (HP 42ml cartridge) & BagJet 1300/LT (HP 42ml cartridge); ATIP AutoPrint series 400 & 500 (TIJ 2.0 invisible solvent 42ml ink cartridge); etc.

- Other HP TIJ 2.5 and TIJ4.0 based Industrial printers/VDUs for narrow-web, wide-web, flexo-web continuous web and sheet-fed presses, roll-to-roll web-base, desktops, collators, and transports for variable data printing. These include printing systems that use HP approved HP C8842A & 51645A cartridges

Visit www.inkribbonpaper.co.uk

OR

Email enquiries@inkribbonpaper.co.uk for more products