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IPEX 2010

The **Matti Group** showed a Technical Display, featuring a comprehensive range of equipment, which could be configured to meet the most demanding print requirements for Transpromotional, Bank and Insurance Documents, Variable data, Statements, Utility Bills or Mailing campaigns. The **Matti Group's** presentation showed how it could add new dimensions to the world of digital print.

Pre-Processing:

The display incorporated a **Matti Orion Unwind, Model TU5020** feeding plain Crown Digital HS90 Paper into the new **Orion Buffer/Accumulator Model B/ACC20**.



The New Buffer Accumulator is a multi function device, which allows pre and post processing equipment to be connected to the most demanding printer and is capable of storing up to 6 metres of paper in a small footprint.

The web was then turned 90 ° into the very latest Paper Processor the **Orion Model BPP520/Compact** configured with a programmable horizontal perforating cylinder and an Optical Mark printer, which could be used for pinless applications.



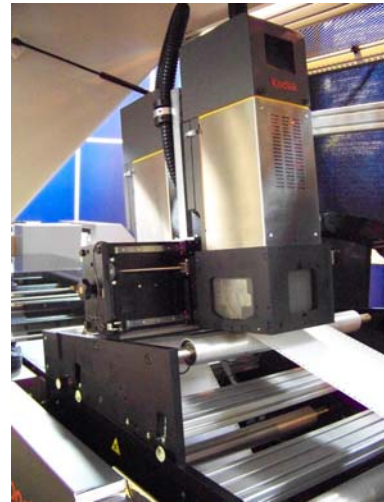
Optical Mark printer

The Compact has been designed to meet the exacting requirements of the latest new generation printers, which operate at high speeds and need the flexibility to change format at the touch of a button. The BPP520/Compact is part of the BPP520 family an extremely versatile paper converting unit when can be customised to for unique applications.

Digital Printing:

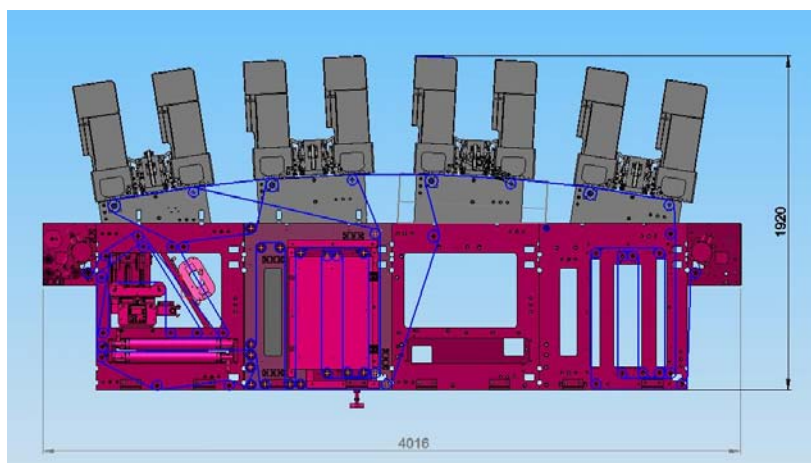
The document was printed using the latest **Kodak Prosper S10 print heads**.

The heads were mounted in the New **Matti Technology Modular Compact Runner model MCR1000** an extremely versatile Web Transport System designed to accept all “Variable Data Print Heads”.



Modularity and flexibility are inherent in the new generation paper transport bases, designed to meet the most demanding applications for Mono and Colour digital printing systems. As a modular system the unit can be configured for 1, 2, 3 and 4-up documents, for simplex or duplex printing applications.

The systems can incorporate up to 16 wide format print heads including high performance dryers with fully automatic controls. Servomotors drive the web, which ensures the system accelerates smoothly whilst maintaining accurate web tension.



A fully configured transport unit

Post-Processing:

On the output of the digital printer is the recently released **Dynamic Pattern Perforator Model DPU20**.

The DPU20 Dynamic Perforating Unit can be a pinned or pinless device, and was shown producing **Pattern Perforations** selectively. Document depths are programmable making the unit ideally suited for producing a whole range of documents from itemised bills with tear off stubs and tokens. The document depths can be varied from 11” to 14” all controlled via the operator touch screen.



The pattern perforations shown in the application were complex shapes comprising of curves, straight lines and circles

After the Dynamic perforator the web will be rewound on an **Orion Rewinder Model TR5020**.



By utilising the options package the rewinder can be configured for a vast range of printer. All the rewinders incorporate a soft start system, therefore ensuring reels are consistently rewound to pre set tension parameters. Thus ensuring the reel is wound to the highest standards, which is crucial for subsequent processing.

Built into the rewinder will be an **IntegraScan** camera inspection system from Lake Image Systems. Using high resolution imaging technology, IntegraScan provides real time data verification and print quality analysis for enhanced process control and data integrity.

By reading the unique and variable data on each document, IntegraScan can verify with the original print file to identify duplicate and missing documents and print quality issues, while providing full integrity and productivity reporting.



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