

New integrated printing and cutting device for apparel Printer Cutter TPC-1000

Mimaki launches another innovative print & cut solution for on-demand production of apparel with two different inks for transfer printing. The new offerings enable companies to expand their business opportunities.

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Mimaki Engineering Co., Ltd., a leading manufacturer of wide-format inkjet printers and cutting machines for the sign/graphics, industrial and textile/apparel markets, is pleased to announce the new Printer Cutter TPC-1000. This unique model combines Mimaki's legendary and state-of-the-art inkjet and cutting technologies.

Mimaki announced its Printer Cutter line CJV30 series that uses two types of solvent ink (SS21 and ES3) early July 2008. The TPC-1000 is based upon the CJV30 series that can use two types of inks for apparel printing: Solvent ink

and dye sublimation ink: Sb52 and Sb51. The use of solvent inks for printing on rubber sheets enables printing of numbers, team names and sportswear brand names, caps and casual wear. Dye sublimation printing with high density dye sublimation inks exhibiting a wider color gamut, facilitates printing on transfer paper for image transfer to polyester sportswear and swimsuits. The print and cut solution allows for fast and accurate order processing of variable data and short run jobs.

TPC-1000 provides for high quality prints and streamlined production of various designed print and cut jobs in small as well as long print runs. Thus customers can broaden their current businesses easily by expanding into new markets.

When printing on rubber sheets the design can be accurately cut and then placed on the media for transfer. All that needs to be done afterwards is heat pressing the design to the media for achieving a beautiful adhesive finish that is washable.

For dye sublimation prints transfer paper is printed upon. Then the fabric and transfer paper are placed in a heat press. Under the influence of heat, the ink transferred to the paper is dyed to polyester materials whereby the water-content of the ink vaporizes instantly. Thus vivid dye colored images are produced on fabric textures. Due to the fabrics retaining their washability, this technology is particularly suitable for sportswear.



Main Features

1. Auto Media Clamp function for continuous printing and cutting

Mimaki's Auto Media Clamp function can be set from RasterLink Pro 4 TA whereby four different levels of clamp pressure (strong, medium, weak and off) can be selected according to the type of substrate. The clamp pressure is then automatically changed. The TPC-1000 can automatically switch from printing to cutting allowing for continuous operation without operator intervention.

2. Continuous crop mark detection for precise contour cutting

After re-feeding of substrates or after printing TPC-1000 automatically detects the printed crop marks for accurate and effective contour cuts so that each image is automatically aligned.

3. Mimaki's Half Cut function

After printing the sheet can be cut leaving a portion of half connecting points, which can be easily detached and the necessary parts can be transferred.

4. UISS (Uninterrupted Ink Supply System)

Mimaki's UISS enables automatic switching of ink supply in four color mode. Whenever one cartridge runs empty TPC-1000 automatically switches to the other cartridge of the same color thus enabling long continuous unattended print runs. The empty ink cartridges can be replaced on the fly.

5. Included software

- a) Simple Studio TA software for easy creation of numbers or marks, print and cut of the design
- b) Plug-in software FineCut7 for print and cut directly out of Adobe Illustrator and CorelDRAW
- c) Raster Link Pro 4 TA, software RIP corresponding to PostScript3, incorporating color management functions and different image generation functions enables production of professional prints

About Mimaki

Mimaki is a leading manufacturer of wide-format inkjet printers and cutting machines for the sign/graphics, industrial and textile/apparel markets. Mimaki develops the complete product range for each group; hardware, software and the associated consumable items, such as inks and cutting blades. Mimaki excels in offering innovative, high quality and high reliability products, based upon its aqueous, solvent and UV-curable inkjet technology. In order to meet a wide range of applications in the market, Mimaki pursues the development of advanced on-demand digital printing solutions. Mimaki Engineering Co. Ltd., (President: Akira Ikeda) Nagano (Japan), is publicly listed on the JASDAQ Securities Exchange, Inc.